

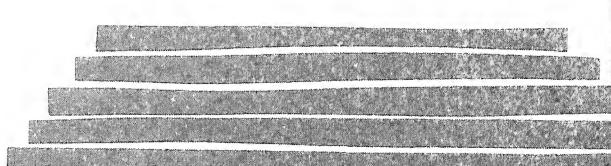
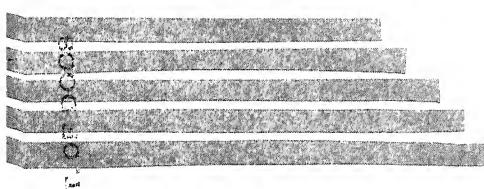
U.S. -- Small Business Administration
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U.S. GOVERNMENT
**PURCHASING
AND SALES
DIRECTORY**

A GUIDE FOR
SELLING OR BUYING
IN THE GOVERNMENT MARKET

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U.S. GOVERNMENT

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HOW TO USE THE DIRECTORY

The "U.S. Government Purchasing and Sales Directory" has seven parts:

Part I, which begins on page 3, provides information on selling to the Government and to Government contractors.

Part II, which begins on page 15, lists products and services bought by the major military purchasing offices and indicates, by means of code numbers following the products or services, the purchasing offices that buy them.

Part III of the directory, beginning on page 37, discusses local purchasing by military installations and gives a State-by-State listing of installations that are possible sources of business for small concerns.

Part IV, beginning on page 45, lists products and services purchased by the major Federal Civilian agency purchasing offices and indicates, again by means of code numbers following the products and services, the purchasing offices that buy them.

Part V, which begins on page 83, lists those Federal agencies which engage in major research and development activities. Each of these agencies has developed procedures which are designed to ensure for all organizations, regardless of size, opportunity to submit proposals on their research and development needs. This part of the directory also contains useful information on preparing proposals and preparing brochures.

Part VI, beginning on page 115, is a guide to Government specifications—what they are, how they are used, and where they may be obtained by prospective bidders.

Part VII, which begins on page 123, discusses Government property sales, including types of property sold, locations of sales, installations and Small Business Administration assistance to small firms in buying property being disposed of by the Government.

The various parts or sections of the directory can be located readily through use of the detailed table

of contents or the edge index on the outside back cover.

To assist persons who may be using the directory for the first time, the following section tells how to use the listings of products and services purchased by Government agencies and the related code numbers that designate the purchasing offices.

Finding Who Buys What and Where

To determine which Government agencies buy the product or service you are interested in supplying, first consult the listings of items purchased by the military and civilian agencies (pages 15 and 45).

If you do not find a listing that relates to the product or service in which you are interested, look then for the broad class in which it is most likely to be included. In order to cover the several million different products and services bought by the Federal Government, the two listings of Government purchases often refer to broad classes of items rather than to individual items. This is particularly true of the listing of military purchases.

Once you have located the product or service in which you are interested, or the broad class of which it is a part, note the numbers which appear after it. Next, refer to the appropriate listing of purchasing offices, military or civilian, to locate the offices designated by these numbers.

For example, consider the classification, "diving apparatus" in the listing of products and services purchased by the military departments.

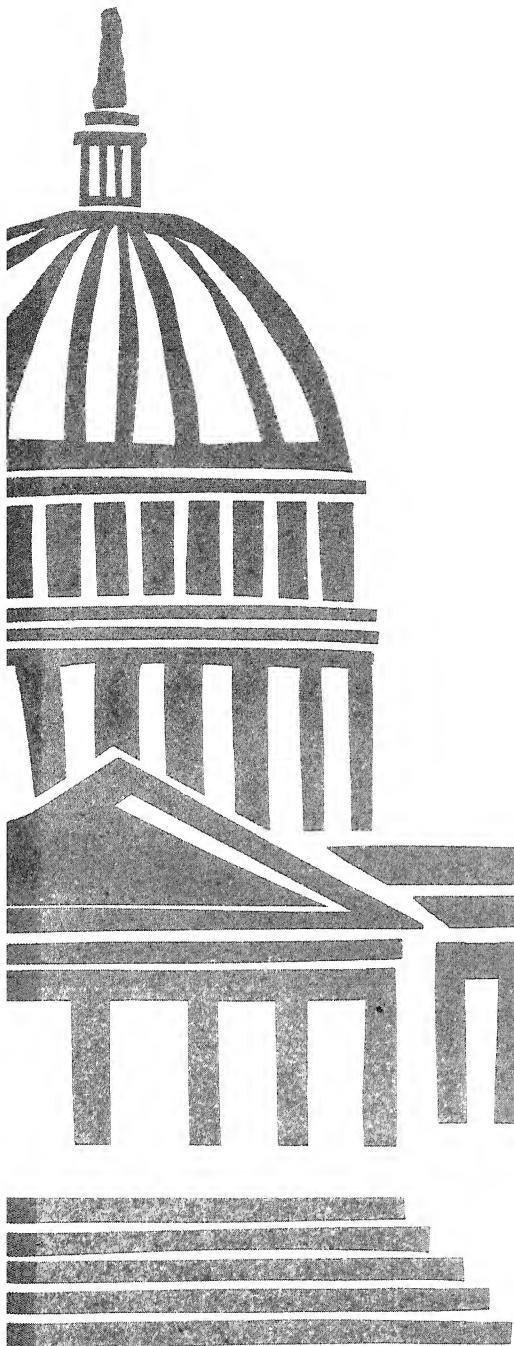
After this particular classification appears the code numbers A32, N3, N11, D7. By turning to the section on major military purchasing offices and locating these code numbers, you will find that diving apparatus is purchased by the Commanding Officer, U.S. Army Mobility Equipment Center, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120. Commander, Naval Ships Systems Command, Washington D.C., 20360; the Commanding Officer,

Navy Ships Part Control Center, Navy Supply Depot, Mechanicsburg, Pa. 17055; and the Defense Construction Supply Center, 3990 East Broad St., Columbus, Ohio 43215.

The classification "Boats, lifesaving" in the section of the directory which shows purchases by Federal civilian agencies is an example of a listing that applies to a specific product.

After this product are the purchasing office code numbers 190, 200, and 480. By consulting the

section on civilian agency purchasing offices, you will find that the numbers indicate that boats of this type are purchased by the Division of Purchase and Sales, Office of Property and Supply, Maritime Administration, U.S. Department of Commerce, Washington, D.C. 20235; D.C. Government Procurement Office, Department of General Administration, 499 Pennsylvania Avenue, Washington, D.C. 20001; and the Division of Purchasing, Tennessee Valley Authority, Chattanooga, Tenn. 37401.



U.S. GOVERNMENT
*PURCHASING,
SPECIFICATIONS
AND SALES DIRECTORY*

PART I



SELLING TO THE U.S. GOVERNMENT

The U.S. Government is the world's largest buyer of goods and services. One of the major responsibilities of the Small Business Administration is to see that small business concerns obtain a fair share of this vast Government market.

This section of the directory explains how the Government buys, gives general suggestions on selling to it, and tells how SBA helps small business owners sell to Federal purchasing agencies and their prime contractors.

How the Government Buys

Federal purchasing offices buy supplies and services in two ways: by "formal advertising for bids" and by "negotiation."

Advertising for bids. When making a purchase by this method, a purchasing office sends "invitations for bids" to businesses listed on its "bidders list" for the particular item. This list is made up of business concerns—manufacturers, regular dealers in the needed item, construction contractors, or other appropriate concerns—that have told the office they want to bid on its purchases of the item, and that have supplied information indicating their ability to carry out Government contracts.

If a bidders list contains many names, the purchasing office may send invitations to only part of the list each time it makes a purchase. This rotation process is continued until each listed business has had an opportunity to bid.

In some instances, a procurement office will want bids from a greater number of concerns than are listed on its bidders list. In these cases, the office will also seek bids through advertisements in trade papers and similar publications, notices in post offices, and other publicity. Companies that learn of the proposed purchase in this way can obtain bid invitations from the procurement office.

An invitation for bids will include a copy of the specifications for the needed item describing in de-

tail the quality and other requirements of the supplies, or will tell how a copy can be obtained. It also will include instructions for the preparation of bids, and will state the conditions of purchase, delivery and payment.

Bids submitted on a proposed purchase are opened at a public bid opening in the procurement office at a time designated in the invitation for bids. Pertinent facts about each bid are read aloud, and an abstract of bids is prepared, a copy of which remains available for perusal by the public, generally for a period of 6 months.

The contract is awarded to the bidder who is deemed competent to carry out the contract and whose bid (a) conforms to all requirements of the invitation for bids and (b) is considered the most advantageous to the Government, in terms of price and other factors.

It should be noted that a purchasing officer may reject all bids received on a purchase when he believes that this is in the interest of the Government, or that the bids are not reasonable, were not independently arrived at by the bidders, or were submitted in bad faith.

Buying by Negotiation. Under certain circumstances, which are prescribed by law and applicable regulations, Government purchases may be made by negotiation with qualified suppliers, and without formal advertising for bids. For example, a purchase may be made by negotiation if it is not possible to draft adequate specifications or if the item is of an experimental, developmental or research nature.

In purchasing by negotiation, the procurement office also makes use of its bidders list for the particular item or service. Here the office asks for price quotations or proposals, including detailed analyses of estimated costs or other evidence of reasonable prices. These "requests for proposals" are sent to a number of suppliers so that the purchase will be made on a competitive basis.

After reviewing the various quotations received on a purchase, the contracting officer frequently will negotiate further with the suppliers who have submitted acceptable proposals, seeking the most advantageous contract for the Government.

Qualified Products Lists. In the case of certain products purchased by the Government, the invitation for bids or request for proposals will specify that the item to be purchased is on a Qualified Products List. This means that only those bids or proposals offering products that have previously passed required qualification tests will be considered. More complete data as to use of Qualified Products Lists, and steps to take in having a product included on these lists, will be found on page 117.

Types of Contracts. In both formally advertised and negotiated buying, the Government generally uses fixed-price contracts. In some instances, the contract may be varied to provide for price redetermination; for example, in the case of first-time production runs, where costs are uncertain. Cost-plus-fixed-fee contracts are used only where fixed-price contracts are not deemed feasible. Cost-plus-a-percentage-of-cost contracts are prohibited by law. Letters of intent are preliminary contracts enabling a contractor to begin work pending the negotiation and execution of the final contract. They are used only in emergencies or where unusual circumstances require all possible reduction in the procurement "leadtime."

Locating Sales Opportunities

It is apparent that bidders lists showing suppliers of particular items generally are the basis for Government purchases, whether made by advertising for bids or by negotiation.

Obviously then, the small business that wants to sell to the Government should obtain listing on all appropriate bidders lists. However, before it can do this, it must know which agencies normally buy the products or services it can offer.

If the business can supply only one or a few products or services, the Small Business Administration field office that serves its area can tell it which agencies are its prospective customers. In requesting this information, the concern should give SBA sufficient data about its facilities, products, and so forth, to indicate clearly its capabilities.

On the other hand, if the concern can supply a variety of products or services, it should check a number of sources of information on Government purchasing. Helpful sources of information are

1. The listings in this directory of items and services purchased by the Government, and the offices that purchase them.

2. The Business Service Centers of the General Services Administration. GSA acts as the purchasing agent for many items of equipment and supplies used by Federal and military agencies. The small owner can learn of the standard items bought by GSA by writing or visiting the nearest GSA Business Service Center. These centers are located in Atlanta, Ga.; Boston, Mass.; Chicago, Ill.; Dallas, Tex.; Denver, Colo.; Kansas City, Mo.; Los Angeles, Calif.; New York, N.Y.; San Francisco, Calif.; Seattle, Wash.; and Washington, D.C. See page 73 for complete addresses.

3. The "Commerce Business Daily" which is published Mondays through Fridays (except on Federal legal holidays) by the U.S. Department of Commerce, in cooperation with Government purchasing agencies. In this publication, a small businessman will find a daily list of U.S. Government procurement invitations for bid, subcontracting leads, contract awards, sales of surplus property and foreign business opportunities.

Copies of this publication are available for reference purposes at SBA and Department of Commerce field offices (See list of these offices in back of book), or may be obtained on a subscription basis for \$15.00 per year via regular mail or \$67 via air mail from the Superintendent of Documents, "Commerce Business Daily," Government Printing Office, Washington, D.C. 20402. Purchase order must be accompanied by payment. All remittances (check or money order) shall be made out to the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. It may also be ordered through any Department of Commerce field office. See list of these offices in back of book.

Getting Listed on Bidders Lists

After learning which agencies buy the items he can supply, the small business owner should ask the agencies to send him the necessary forms to have his business listed on their bidders lists.

In answer to the request for listing, the civilian purchasing agencies may send the business a Standard Form 129 to fill out (tear out page, end of book). In addition to Standard Form 129 the military purchasing agencies may send the business a DOD Form 558-1 (tear out page, end of book). The purchasing agency may also send a list of the products and services it buys, so that the concern can indicate those it wishes to supply. However, if the purchasing office does not send a list of items, or if the list does not include the exact products or services his business can furnish, the small business owner should attach to the completed form a separate sheet showing:

- a. The specific name of each product or service his business now produces.
- b. If applying for listing on a military agency bidders list, any defense items or services his business has supplied in the past.
- c. Additional items or services his business could provide the purchasing agency.

The businessman should describe each product or service listed on this attached sheet and, if possible, should give the number of the Government specification it meets or can be made to meet.

When he returns the completed form to the purchasing agency the small business owner should send with it a covering letter referring to the attached list and asking that he be informed on which bidders lists his business has been placed.

After having his business placed on various bidders lists, the businessman should continue to seek other bidding opportunities, such as on purchases by agencies which are buying his product or service for the first time and which, therefore, do not have his concern's name on their lists. Helpful sources of information in this regard are the "Commerce Business Daily" and comparable commercial publications.

Each time the small business receives an invitation for bids or a request for proposal from a purchasing office, it either should submit a bid or proposal or should write to the purchasing office to say that it is unable to bid on this procurement but wishes to remain on the active bidders list for the item or service. Otherwise, the business may be dropped from the bidders list.

Preparing Bids and Proposals

When the opportunity arises for the businessman to submit a bid on a proposed purchase, he

should prepare his offer with the greatest care. An invitation for bids is actually a contractual document. If he submits an erroneous bid and is awarded a contract on the basis of it, the result may be little or no profit to him, or even serious financial loss.

Before preparing his bid, the businessman should study carefully the invitation and any amendment to it in order to appreciate fully what is expected of the contractor. He should give close attention to the specifications and drawings, the instructions to bidders, and the conditions of purchase, delivery and payment. If he is awarded the contract, he will be expected to perform it in strict accord with the pertinent specifications and drawings; they are part of the contract itself.

In his bid the businessman should not substitute an item he prefers to furnish or which he deems to be just as good as the item specified. Unless he bids on items meeting the exact specifications called for in the bid request his bid may be declared nonresponsive.

It is important, also, for the small business owner to adhere to any special conditions relating to materials, packing, packaging and delivery that may appear on a supplementary sheet to the invitation for bids, and may vary from the printed standard instructions.

The bidder should be extremely careful in determining what his costs would be in fulfilling the contract. He should compute all costs of material, labor, overhead, packaging, and freight, etc. A contracting officer has no authority to revise a contract price to compensate for a mistake in a business concern's bid.

The businessman should also study the clauses contained in the invitation for bids, bearing in mind that most of them are mandatory and any attempt to have them modified or deleted generally would be useless.

Typical of these important standard clauses is the one dealing with *defaults*. This clause provides that a contracting officer may declare a contractor in default if the contractor fails to perform on time under the contract, if he fails to perform any other provision of the contract, or if he fails to make sufficient progress to make proper performance likely. It is important to note that even though late deliveries may be accepted, the Government does not normally waive its rights under this provision—it may still declare a default as to the remainder

of the contract. After default, the Government usually has no obligation to pay the contractor anything, even an amount to cover his costs and may, in addition, repurchase the item and charge the original contractor for any excess costs.

Another standard clause of great importance is the *changes* provision. This clause allows the contracting officer to make certain changes in the terms of a contract. However, these changes must be in writing and must be signed by the contracting officer before the Government will allow payment for them. (Therefore, if the businessman is awarded a contract, and the contract subsequently is changed by the purchasing agency, before starting work in accordance with the change, he should obtain a written change order, signed by the contracting officer, stating what is to be done and requesting figures for price adjustment as provided by the contract.)

The clause relating to *disputes* also is significant. This clause states that "except as otherwise provided in this contract, any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the contracting officer."

In summary, the businessman should be sure that he understands clearly all clauses and other features of an invitation before submitting a bid. Any question he may have about specifications, price, delivery and so forth should be taken up with the contracting officer prior to submittal of a bid.

When he is ready to submit his bid, the small business owner should be certain to comply with such important provisions of the invitation as (1) sending the required number of copies; (2) mailing the bid in sufficient time for it to reach the purchasing office before the time fixed for opening of bids, and (3) if a sample is required, properly

tagging, marking, and mailing it to the purchasing office, also well in advance of the closing date.

If the businessman's bid arrives after the time set for opening, it will be given consideration only if the contract has not yet been awarded and if the failure of the bid to arrive on time was due solely to a delay in the mails for which the businessman was not responsible. In this connection, it is important for him to make certain that postage on a bid is sufficient. Government purchasing offices will not accept mail on which postage is due.

If the businessman should wish to modify or withdraw a bid, he has submitted, he may do so by written or telegraphic notice to the purchasing office. However, the change or withdrawal must be received by the office prior to the time set for opening of bids.

When preparing a proposal on a purchase to be made by negotiation, the small business owner should take the same care as when preparing a formal bid.

If the contracting officer decides to negotiate with the small business, he will need to substantiate among other factors the overhead figures used in the firm's price analysis and will rule on the financial stability of the company. If the businessman did not include financial statements with his proposal, he should be prepared to furnish a current profit and loss statement, cost of goods sold and his most recent annual balance sheet.

If a business is awarded a contract, and the contract later is reduced in size or terminated for the convenience of the Government, settlement for the amount of work completed will be based upon the firm's actual cost figures. Therefore, as a good business practice the businessman should maintain accurate cost records during the entire life of a contract.

SBA HELP IN SELLING TO THE GOVERNMENT

The Small Business Administration works closely with the principal purchasing agencies of the Federal Government in developing policies and procedures that will lead to increased contract awards to small business concerns. At the same time SBA provides a wide range of services to individual small businesses to help them obtain and carry out Government contracts.

These are some of the important ways in which the agency assists small business concerns:

- SBA Procurement Center Representatives are stationed at major buying centers of the Federal Government to assist small firms with contracting problems and advise them on how to do business with the Government. They also assure that appropriate procurements are set-aside for small business, provide additional opportunities for small firms to participate in unrestricted procurements, request changes in specifications that are too restrictive, initiate "breakouts" on sole source purchases and review and evaluate the overall small business programs of purchasing centers. SBA Representatives carry out the same type of program at smaller buying installations on a liaison basis.

- Through its Certificate of Competency service, SBA provides an appeal procedure for the small business, small business production pool, or small business research and development pool that faces loss of a Government contract award because the purchasing office believes it lacks the necessary financial means and/or technical competency to meet the contract requirements.

- The SBA provides small business owners with information on Government buying methods, products and services bought and agencies that buy them, necessary steps in getting on bidders lists, and related matters.

- SBA field offices help bring together Government prime contractors in need of subcontractors and small businesses that have the required facilities.

SBA's regional offices maintain inventories or listings of the productive facilities of small business concerns in their areas, and refer prime contract and subcontract opportunities to listed concerns that can furnish the needed products or services.

Definition of "Small Business." For purposes of SBA contracts assistance, firms generally are considered small if they are independently owned and operated, are not dominant in their field of operation, and in addition meet the criteria set forth in the SBA Small Business Size Standard Regulations. A manufacturer is considered small if he has no more than 500 employees, including affiliates. Nonmanufacturers qualify as small concerns if they have no more than 500 employees (including affiliates) and furnish products manufactured in the United States by a small business. For information on specific industry classifications and refinements of the general definition of a "small business," contact the nearest SBA field office.

Restricting Purchases to Small Business. The Small Business Administration encourages the major Government purchasing agencies to set aside suitable Government purchases for award to small business concerns on a competitive basis.

A purchase which has been restricted to small business bidders is identified by a set-aside clause in the invitation for bids or request for proposals. There is no overall listing of procurements which have been set aside for small business. A small business learns which purchases are reserved for small concerns by getting listed on bidders' lists so that it will receive invitations for bids and requests for proposals. It also can learn of certain set-aside purchases by referring to the "Commerce Business Daily."

Certificates of Competency. The SBA has the authority to certify that a low bidding small business, a small business defense production pool, or a small business research and development pool

has the necessary financial means and technical competency to carry out a specific Government contract.

This means that the low bidding small business concern or small business pool that meets all requirements for a specific contract award, except financial and technical ability, does not necessarily lose out. Instead, it may ask SBA to study its financial condition and technical competency to determine whether, in the agency's opinion, it can meet the contract requirements. If SBA's investigation reveals that the small business or pool of small concerns is competent to perform the contract, the agency issues a certificate to this effect.

SBA's certification is sent to the Government purchasing officer responsible for award of the contract. By law, he must accept the agency's findings as conclusive as far as financial and technical requirements of the particular contract are concerned.

Certificates of Competency are issued by SBA only under the following conditions:

1. The small concern, small business defense production pool or small business research and development pool applying for a certificate has submitted the lowest responsive bid on an advertised purchase or has submitted a proposal on a negotiated purchase that is within price negotiation range.

2. The Government official responsible for making the purchase does not believe the bidder is able to carry out the particular contract, either for financial or technical reasons, or both.

3. A survey by SBA's financial and production specialists has convinced the agency that the business or pool is capable of performing the contract satisfactorily.

When a contract has been awarded as a result of issuance of a Certificate of Competency, SBA follows the progress of the contract until it is completed. If the contractor has difficulty in meeting production schedules because of technical or other problems, the agency offers assistance in solving them.

A small concern or small business pool, on being notified by SBA that its low bid is to be rejected, may apply for a Certificate of Competency through the SBA field office which serves its area.

Information on Government Buying. The SBA carries on a broad information program in

three main ways: By counseling individual small business owners and managers, by arranging "Contract Opportunity Meetings" for small business concerns, and by providing helpful publications on various aspects of selling to the Government.

In SBA's counseling service, SBA staff members assist individual small business owners and managers in determining what products or services their businesses can supply to the Government and which agencies and purchasing offices are their prospective customers. They explain to the businessman how and where to obtain Government specifications for the particular products or services, and how to have their concerns listed on the appropriate bidders lists. They also provide a wide range of other services—helping them resolve difficulties with Government procurement officers, assisting them in having their products listed on Qualified Products Lists, helping them obtain financing on Government contracts, and so forth.

The SBA's Contract Opportunity Meetings are arranged by the agency in cooperation with the major Government purchasing agencies, local chambers of commerce, manufacturers' associations and other business groups, and major Government prime contractors.

At these meetings, representatives of small business concerns hear purchasing officials of the Government and of large prime contractors discuss their buying procedures, the types of items they buy and their current needs. The small business owners and managers can study bid invitations for products and services needed by the Government, and can examine samples of items bought by the Government or by prime contractors who are seeking additional subcontractors.

Government officials are available to discuss their agencies' services, and to answer questions about particular bid invitations, purchasing procedures, specifications, and related subjects.

Register of Small Business Facilities (Facilities Inventory). SBA maintains a register of small manufacturing firms which fall within a limited group of S.I.C. categories. These categories have been selected for in-depth survey and analysis, since they meet the manufacturing capabilities most often requested by the large prime contractors and Government buying agencies.

SBA HELP IN SELLING TO THE GOVERNMENT

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Categories are constantly being reevaluated and expanded in number. Please check with your nearest SBA office to see if your firm can be included in the Inventory. If so, you will be invited to register by completing the required forms. An SBA specialist will survey your firm to determine specific capabilities.

Before your firm is referred as a capable and interested source for a specific request you will be

contacted, usually by telephone, to determine your interest and open capacity.

SBA offices do not confine source searches to their own areas but obtain sources from each other as well. Consequently, a small plant which registers in the Facilities Inventory may be referred as a source to a procurement center or a prime contractor located in an entirely different part of the country.

SELLING TO GOVERNMENT CONTRACTORS

Subcontracting offers small business concerns an important means of participating in Government purchasing. For some small concerns, it is the most practical means; for others, it is the only means.

In subcontracting on production that is for the Government, there are certain special problems of which the business owner should be aware. Production for the Government is often intricate and exacting. Subcontractors frequently have to work to very close tolerances, under precise specifications, and with tight delivery schedules.

Further, even though the subcontractor's production is for use in filling a Government contract, the subcontractor has no contractual relationship with the Government—its relationship is entirely with the prime contractor.

Before accepting any subcontract, a small business concern should make sure that it understands all of the terms and conditions of the proposed subcontract, including the obligations it would necessarily assume. It should have a clear understanding of the terms and conditions under which it is entitled to receive compensation from the prime contractor, and should know the extent to which it can rely upon the prime contractor for special tools, for engineering advice, for information on manufacturing methods, and for assistance in obtaining use of idle Government-owned machine tools and equipment on a rental basis.

The small business owner should bear in mind that a prime contractor will need to know certain facts about his concern before giving it serious consideration with respect to a specific subcontract. The prime contractor will need information about the small concern's executive organization, its financial and technical competence to perform the subcontract; its physical plant facilities and equipment; its working personnel, and its experience in the particular field.

Generally, a small business is not financially able to enter into a subcontract which would result in

no profit, or perhaps might bring a loss, even if this would enable it to keep its work force and supervisory group intact. The business owner therefore should know his production costs in detail and should quote very carefully. It is better to lose a subcontract than to suffer a loss.

The selling of his concern's services to prime contractors requires persistent "leg work," initiative and imagination. The small business owner who presents his concern's capabilities in the clearest, most persuasive way usually stands the best chance of getting subcontracts.

SBA Subcontracting Assistance

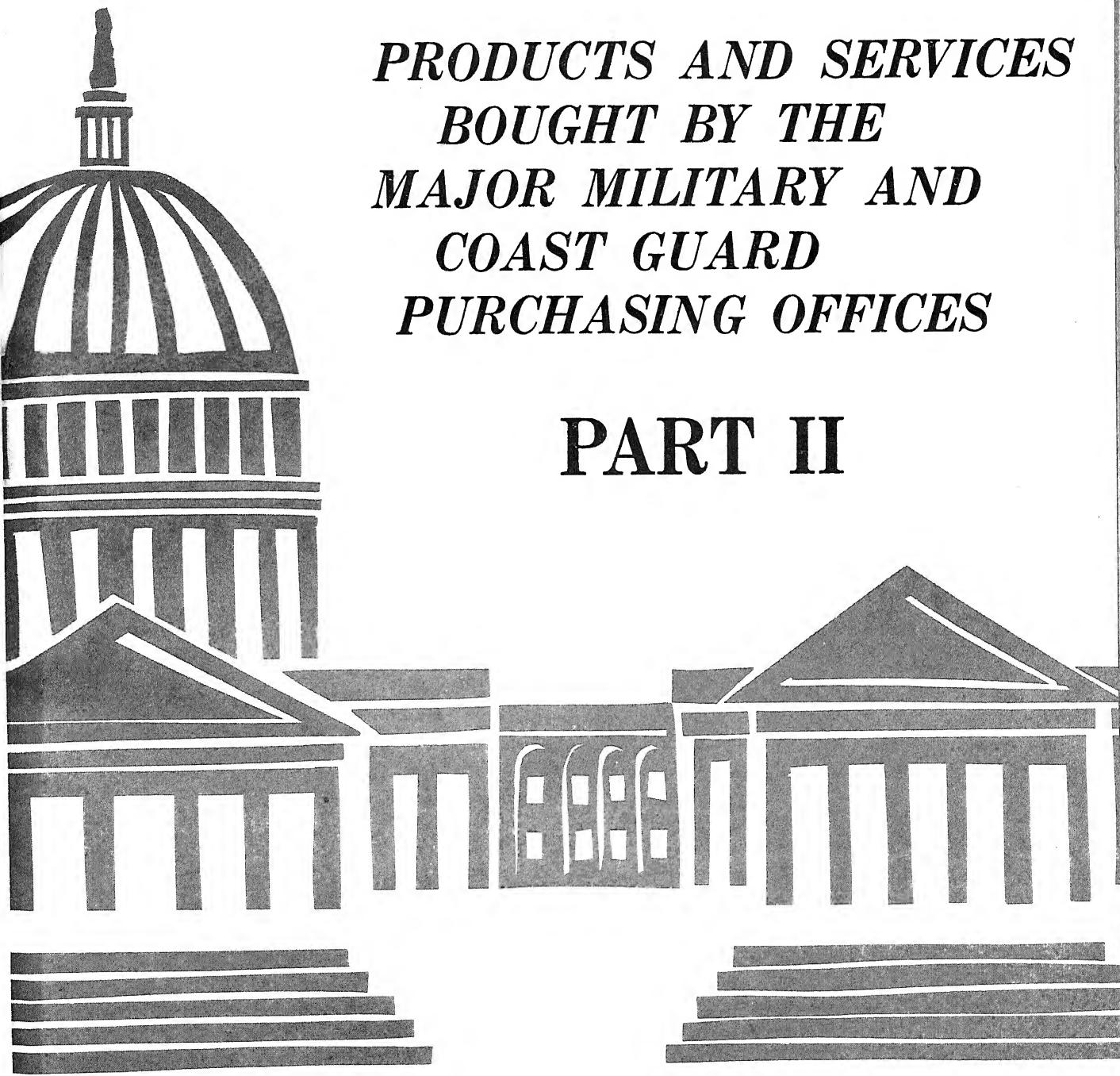
The Small Business Administration seeks not only to increase the volume of Government prime contract awards to small business concerns, but also to increase subcontract awards to small businesses by Government prime contractors. This is particularly important, because in the case of many Government purchases—for example, large complex military items—subcontracting is the only practical way for small concerns to participate.

The Government subcontracting program provides that small concerns (a) shall be considered fairly as subcontractors, and (b) shall be afforded an equitable opportunity to compete for Government prime contractors' requirements. SBA representatives work with prime contractors and procurement agencies in the administration of the program.

SBA's field offices serve as a central point through which prime contractors and small subcontractors can be brought together. SBA's procurement specialists can direct prime contractors to small concerns which have the desired facilities and skills. In a like manner, the small business that calls on SBA for assistance can be directed to prime contractors who may need additional subcontractors.

Since the Government is not a party to a subcontract, it does not award the contract to a particular concern. With certain qualifications, it is the prime contractor's prerogative to select his subcontractors. Therefore, there is a direct relationship between a prime contractor and his subcontractors. The only successful way for a concern to develop subcontracting work with Government

prime contractors is to apply the same techniques it uses in selling to other customers. While the selling job is squarely on the shoulders of the businessman who is seeking subcontracts, SBA can identify major prime contractors for him. Small concerns which experience difficulty in offering their products or services to Government contractors also may call on SBA offices for assistance.



***PRODUCTS AND SERVICES
BOUGHT BY THE
MAJOR MILITARY AND
COAST GUARD
PURCHASING OFFICES***

PART II

PRODUCTS AND SERVICES BOUGHT BY THE MAJOR MILITARY AND COAST GUARD PURCHASING OFFICES

Abrasives materials, N-24, AF-4, CG-3, CG-4.
Abrasives, belts, disks, wheels and stones, A-41, A-42, A-43, A-81, A-82, A-84, N-19, CG-3, CG-4.
Abrasive Cleaning, sandblasting equipment, N-6, N-24.
Acceleration equipment, A-42, N-29c.
Accelerometers, A-41, A-43, N-1.
Acetylene, N-12, N-19, N-23, N-29a, D-4, CG-3, CG-4.
Accounting and calculating machines, A-4.
Acid, Sulfuric, N-25.
Acoustic Devices, N-1, N-3, N-19, N-27.
Activation, mothballed ships, N-3.
Actuators, Hydraulic, N-25.
Adapters, A-41, A-81, A-82, A-84, N-9, N-10, N-24, D-4, D-7.
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*Mainly procured for Department of Defense by General Services Administration. See Code 440 in listing of Federal Civilian Purchasing Offices, page 73.

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Grapnels, A-33, N-11, CG-2.

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Instruments, flight, A-33, N-1, N-9, N-29c, AF-2, AF-6.

Instruments, gas flow measuring (see Gas flow measuring instruments).

Instruments, hazard detecting, miscellaneous (see Hazard detecting instruments).

Instruments, humidity measuring and controlling (see Humidity measuring and controlling instruments).

Instruments, liquid flow measuring (see Liquid flow measuring instruments).

Instruments, liquid level measuring (see Liquid level measuring instruments).

Instruments, mechanical motion measuring (see Mechanical motion instruments).

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Instruments, temperature measuring and controlling (see Temperature measuring and controlling instruments).

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Maintenance, overhaul and repair of photographic equipment, A-4.

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Mast and boom fittings, A-32, N-3, N-11.

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Mechanical assemblies small precision and parts, A-41, N-11.

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Memorials; Cemeterial and Mortuary equipment and supplies, D-4.

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Metal products, architectural and related (see Architectural and related metal products).

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Metal working machinery, A-41, A-43, N-11, N-29a, AF-5.

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Meters, other, A-11, A-12, A-13, A-14, A-41, A-100, N-3, N-5, N-10, N-11, N-23, N-30, D-7, CG-1.

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*Mainly procured for Department of Defense by General Services Administration. See Code 440 in listing of Federal Civilian Agency Purchasing Offices.

†See also Sales of Federal Timber, Part VII of Directory.

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 Microphones and speakers (including components and accessories), A-11, A-12, A-13, A-14, N-1, N-3, N-9, N-10, AF-3.
 Microscopes, A-41, A-42, A-43, A-44.
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 Missile maintenance, repair and check out specialized equipment, AF-1b, AF-3, AF-5b.
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 Ovens, industrial, A-41, N-3, N-6, N-19, N-23, N-24, AF-5.
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*Mainly procured for Department of Defense by General Services Administration. See Code 440 in listing of Federal civilian agency purchasing offices, page 73.

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Phonographs, radios, and television sets, household type, D-4.

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*Printing matter, miscellaneous, D-4.

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*Printing and binding services are not purchased by the Government procurement offices except on waiver issued by the Government Printing Office.

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*Mainly procured for Department of Defense by General Services Administration. See Code 440 in listing of Federal civilian agency purchasing offices, page 73.

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Valves, powered, A-32, N-3, N-9, N-11, N-24, N-25, AF-3, AF-4, D-7, CG-3.

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Vehicles, motorized laboratory van, A-41.

Vehicular brake, steering, axle, wheel and truck components, A-31, A-32, D-7.

Vehicular cab, body, and frame structural components, A-31, D-7.

Vehicular components, miscellaneous, A-31, D-7.

Vehicular furniture and accessories, A-31, D-7.

Vehicular power transmission components, A-31, A-32, A-81, N-24, D-7.

Vellumoid products, A-41.

Vending machines, A-2, N-21, D-4.

Veneer, D-7.

Verniers, A-41.

Vessels, combat, N-3.

Vessels, landing, N-3.

Vessels, passenger and troop transport, N-3.

Vessels, special-purpose, A-32, N-3, CG-1.

Veterinary supplies and equipment, D-1.

Vials, A-41.

Visible record equipment, A-4, D-4.

Voltage regulators, A-11, A-12, A-13, A-14, A-31, A-32, A-41, N-8, N-9, N-10, N-11, N-24, D-7, CG-1, CG-2, CG-3, CG-4, CG-6.

Wallboard, N-23, N-24, N-29a, D-7.

Warheads (nonatomic, for guided missiles, rockets and underwater weapons), A-42, A-45, N-2, AF-1a.

Washers, A-31, A-33, A-41, A-81, A-82, A-84, N-9, AF-3, AF-4, D-5.

Watches, clocks and components, A-41, N-11.

Water coolers and dispensers, N-11, N-25, D-4.

Water distillation equipment (marine use only), N-3, D-7, CG-1.

Water distillation equipment (non-marine use), D-7.

Water heaters, domestic, AF-3, AF-5, D-7.

Water purification equipment, N-3, N-9, N-30, D-7.

Water systems, domestic (power operated, shallowwell, deepwell, and jet pump systems), N-12.

Watertight doors, A-33, N-11, CG-1, CG-3.

Wave filters, A-11, A-12, A-13, A-14.

Waveguides and related equipment, A-11, A-12, A-13, A-14, A-41, N-3, N-10, N-19, N-23, N-24, AF-3, D-9.

Waxes, natural mineral, N-19, D-6.

Waxes, oils and fats, miscellaneous, D-6.

Waxes, petroleum, D-6.

Weapons, parts and subassemblies thereof (excluding mounts, carriages, fire control equipment, both optical and electronic), A-43, A-81, A-82, A-84, N-27.

Weapons maintenance, repair and checkout specialized equipment, A-81, A-82, AF-5.

Weapons, self-propelled, A-81, A-82, A-84.

Welders, N-6, N-11.

Welders' gloves, A-33, D-1.

Welders' goggles, A-43, D-1.

Welding equipment, A-32, A-42, A-81, A-82, A-84, N-3, N-5, N-11, N-19, N-24, N-29, N-29a, N-30, AF-5, D-7, CG-3, CG-4, CG-5, CG-6.

Welding machine, arc, N-6, N-11, N-29a, D-7.

Welding supplies, AF-5.

Wheelbarrows, N-6, D-4.

Wheels, abrasive, N-25.

Winches (including towing machines), A-32, N-3, N-11, N-23, D-7, CG-1.

Windlasses, A-32, N-3, N-11, D-7, CG-1, CG-3.

Windows, A-41, D-7.

Wire, electrical, A-4, A-11, A-12, A-13, A-14, A-32, A-33, A-41, A-42, N-9, N-10, N-24, N-25, N-27a, N-28, N-30, AF-3, D-5, CG-1, CG-2, CG-3, CG-4, CG-5, CG-6.

Wire laying devices, A-11, A-12, A-13, A-14.

Wire, nonelectrical, iron and steel, A-33, A-42, N-24, N-29c, N-30, N-31, AF-5, D-5.

Wire, nonelectrical, nonferrous base metal, D-5.

Wire and metal ribbon forming machines, A-81, A-82, A-84, N-6, N-9, N-29, N-29a, AF-5.

Wire and wire rope assemblies, A-32, A-82, N-11, N-24, N-29a, N-29c, N-30, AF-3, AF-4, D-5, CG-1, CG-2, CG-3.

Wiring harness, A-31, A-41, A-81, A-82, N-10, D-4, D-7.

Woodworking machines, A-32, N-5, N-6, N-29a, D-7.

Woodworking machines, tools and attachments for, A-32, N-11, N-24, N-29a, N-30, D-7.

Wrapping and packaging machinery, N-6, N-7, N-24, N-30, N-31, D-4.

Wrist pins, A-33, N-9, D-7.

X-ray equipment, D-1.

Yarn, D-1.

MAJOR MILITARY AND COAST GUARD PURCHASING OFFICES

The following major military procurement offices make large purchases of materials, supplies and services in support of the Departments which they represent. In addition, each of these major offices frequently makes smaller purchases on behalf of the individual military installations in its area. Small business concerns should request information about these smaller purchases from the major purchasing offices nearest their communities.

Small business owners also should bear in mind that most military installations are authorized to make local purchases in smaller quantities, and to contract for such services as laundry, dry cleaning, shoe repairs, automotive repairs, maintenance and repair services. Therefore, it is important for small firms interested in supplying these local purchases to contact the individual military installations in their areas. A list of military installations, which is in addition to the listing of major purchasing offices given below, will be found in Part III, "Local Purchases by Military Installations," beginning on page 37.

Each Army, Navy, and Air Force installation in this country establishes its own procurement requirements. Actual purchases of resale items are made at the installation level, or, in the case of Army and Air Force exchanges, procurement is made by the Area Support Center to which the installation exchange is assigned for support services. Overseas Army and Air Force exchanges must process all stateside procurement orders

through Army and Air Force Exchange Service headquarters AAFES, Dallas, Tex. 75222. Firms wishing to sell to the overseas Navy and Marine Corps exchanges should write the Commanding Officer, Navy Ships Store Office, 29th Street and 3d Avenue, Brooklyn, N.Y. 11232; and the Marine Corps Exchange Service Headquarters, U.S. Marine Corps (CHX), Washington, D.C. 20380.

Firms desiring information on selling to Army and Air Force Exchanges should write to the Procurement Division, Army and Air Force Exchange Service, Dallas, Tex. 75222, or contact one of the Area Support Centers listed under A-2, listed below.

In selling to individual post exchanges in the United States, a firm may either arrange for representatives to call on the exchanges or may circulate them with descriptive literature, prices, discount terms, shipping data, and other pertinent information. However, personal calls are usually more effective than sales efforts by mail.

For information on selling to the commissary stores contact the Chief, Army Support Services, Department of the Army, Washington, D.C. 20315; Headquarters, U.S. Air Force (AFSSSEB), Pentagon, Room 5-B-337, Washington, D.C. 20330; the Commanding Officer, Navy Ships Store Office, 29th Street and 3d Avenue, Brooklyn, N.Y. 11232; and the Marine Corps Exchange Service Headquarters, U.S. Marine Corps (CHX), Washington, D.C. 20380.

Department of the Army Major Purchasing Offices

A-1 Contracting Officer, Army Publications Service Division, TAGO, Washington, D.C. 20315
A-2 Headquarters, Army and Air Force Exchange Services, Oak Cliff Bank Tower, 400 South Zango Boulevard, Dallas, Tex. 75208
Area Support Centers for Army and Air Force Exchange Services:

308-220-68—3

Location
Fort Sam Houston
San Antonio, Tex.

Correspondence
Alamo Area Support Center
Building 370
Fort Sam Houston,
Tex. 78234

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

<i>Location</i>	<i>Correspondence</i>	
Cameron Station Alexandria, Va.	Capitol Area Support Center Building 6 Cameron Station, Va. 22314	A-4 Director, Defense Supply Service, Washington, Office of the Secretary of the Army, Room 1D 245, The Pentagon, Washington, D.C. 20310
1745 Sumter Street Columbia, S.C.	Carolina Area Support Center 1745 Sumter Street Columbia, S.C. 29201	A-11 Chief, Fort Monmouth Procurement Division, Procurement and Production Directorate, U.S. Army Electronics Command, Fort Monmouth, N.J. 07703
Rocky Mountain Arsenal Denver, Colo.	Colorado Area Support Center Building 613 Rocky Mountain Arsenal Denver, Colo. 80270	A-12 Chief, Philadelphia Procurement Division, Pro- curement and Production Directorate, U.S. Army Electronics Command, 225 South 18th Street, Philadelphia, Pa. 19103
341 Market Street San Francisco, Calif.	Golden Gate Area Support Center Box 3553 San Francisco, Calif. 94119	A-13 Chief, Fort Meade Procurement Division, Pro- curement and Production Directorate, U.S. Army Electronics Command, 9800 Savage Road, Fort George G. Meade, Md.
Forbes AFB Topeka, Kans.	Kansas Area Support Center Building 320 Forbes AFB, Kans. 66620	A-14 Chief, Washington Procurement Division, Pro- curement and Production Directorate, U.S. Army Electronics Command, 814 North St. Asaph Street, Alexandria, Va. 22314
1500 Airport Drive Shreveport, La.	Louisiana Area Support Center 1500 Airport Drive Shreveport, La. 71107	A-21 Commanding General, U.S. Army Missile Com- mand, Attn: Directorate of Procurement and Production, Redstone Arsenal, Huntsville, Ala. 35809
Fort Dix Wrightstown, N.J.	Mid-Atlantic Area Sup- port Center Building S-5341 Fort Dix, N.J. 08640	A-31 Commanding General, Army Tank-Automotive Command Center, Attn: Directorate of Procurement and Production, Michigan Army Missile Plant, 16 Mile Road and Van Dyke, Warren, Mich. 48090
Westover AFB Chicopee Falls, Mass.	New England Area Support Center Building 6521 Westover AFB, Mass. 01022	A-32 Commanding Officer, U.S. Army Mobility Equipment Command, Attn: Directorate of Procurement and Production, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120
Indiana Army Am- munition Plant Charlestown, Ind.	Ohio Valley Area Sup- port Center Building 2501 Indiana Army Am- munition Plant Charlestown, Ind. 47111	A-33 Director, Procurement and Production, U.S. Army Aviation Materiel Command, Attn: Directorate of Procurement and Production, 12th and Spruce Streets, St. Louis, Mo. 63166
Fort Lewis Tacoma, Wash.	Puget Sound Area Support Center Building 8080 Fort Lewis, Wash. 98433	A-41 Commanding Officer, Frankford Arsenal, Attn: Small Business and Labor Surplus Advisor, Bridge-Tacony Streets, Philadelphia, Pa. 19137
Norton AFB San Bernardino, Calif.	Southern California Area Support Center Building 533 Norton AFB, Calif. 92409	A-42 Commanding Officer, Picatinny Arsenal, Attn: Small Business and Labor Surplus Advisor, Dover, N.J. 07801
Biggs AFB, Building 745 El Paso, Tex.	Southwest Area Support Center Box 8053 Biggs Field Branch El Paso, Tex. 79908	A-43 Commanding Officer, Edgewood Arsenal, Attn: Small Business and Labor Surplus Advisor, Edgewood Arsenal, Md. 21010
Biggs AFB, Building 756 El Paso, Tex.	Southwest Area Support Center Box 8053 Biggs Field Branch El Paso, Tex. 79908	A-44 Commanding Officer, U.S. Army Biological Laboratories, Attn: Small Business and Labor Surplus Advisor, Fort Detrick, Frederick, Md. 21701
Fort Worth Federal Center Building 2, Felix Street Fort Worth, Tex.	Texoma Area Support Center Box 6988	A-45 Commanding Officer, U.S. Army Ammunition Procurement and Supply Agency, Attn: Small Business and Labor Surplus Advisor, Joliet, Ill. 60436
Fort Benning, Building 358 Columbus, Ga.	Forth Worth, Tex. 76115 West Georgia Area Support Center Building 358 Fort Benning, Ga. 31905	A-77 The Army Corps of Engineers awards architect- engineer and construction contracts for Army and much of Air Force construction. It also awards and supervises contracts for certain civil works, such as flood control, hydroelectric power, river and harbor improvement for navigation, and similar projects. Firms desiring construction work or architect-engineer contracts should contact one or more of the offices listed below. Those interested in construction subcontracting work may also write to these offices for a list of construction prime contractors to contact for possible business. Address as: Corps of Engineers, U.S. Army— Alabama, Mobile, 2301 Airport Boulevard, P.O. Box 1169 36601 Alaska, Anchorage, P.O. Box 7002 99501 Arkansas, Little Rock, 700 West Capital Avenue, P.O. Box 867 72203 California, Los Angeles, P.O. Box 2711 90053 California, Sacramento, 650 Capital Mall 54814 California, San Francisco, 630 Sansome Street 94111

MAJOR MILITARY AND COAST GUARD PURCHASING OFFICES

<p>California, San Francisco, 100 McAllister Street, Rincon Annex 94102</p> <p>Florida, Jacksonville, P.O. Box 4970 32201</p> <p>Florida, Merrit Island, P.O. Box 1042 32952</p> <p>Georgia, Atlanta, 30 Pryor Street, SW. 30303</p> <p>Georgia, Savannah, 200 East St./Julian Street P.O. Box 889 31402</p> <p>Hawaii, Honolulu Building 96, Fort Armstrong 96813</p> <p>Illinois, Chicago, 5366 S. Clark Street 60605</p> <p>Illinois, Rock Island, Clock Tower Building 61201</p> <p>Kentucky, Louisville, 830 West Broadway, P.O. Box 59 40201</p> <p>Louisiana, New Orleans, Foot of Prytania Street 70160</p> <p>Maryland, Baltimore, 24th and Maryland Avenue, P.O. Box 1715 21203</p> <p>Massachusetts, Waltham, 424 Trapelo Road 02154</p> <p>Michigan, Detroit, 150 Michigan Avenue 48231</p> <p>Minnesota, St. Paul, 1217 U.S. Post Office and Court- house Building, 180 East Kellogg Boulevard 55101</p> <p>Mississippi, Vicksburg, U.S. Post Office and Court- house Building, 39180</p> <p>Mississippi, Vicksburg, Mississippi River Com. Building, P.O. Box 80 39180</p> <p>Missouri, Kansas City, 700 Federal Office Building, 601 East 12th Street 64106</p> <p>Missouri, St. Louis, 906 Olive Street 63101</p> <p>Nebraska, Omaha, 215 N. 17th Street 68102</p> <p>New Mexico, Albuquerque, P.O. Box 1580 87103</p> <p>New York, Buffalo, Foot of Bridge Street 14207</p> <p>New York, New York, 111 E. 16th Street 10003</p> <p>New York, New York, 90 Church Street 10007</p> <p>North Carolina, Wilmington, 308 Customhouse, P.O. Box 1890 28401</p> <p>A-77 Ohio, Cincinnati, 550 Main Street, P.O. Box 1159, 45201</p> <p>Oklahoma, Tulsa, Chamber of Commerce Build- ing, 616 South Boston Avenue, P.O. Box 61, 74102</p> <p>Oregon, Portland, 628 Pittock Block, Southwest, 10th Avenue and Washington Street 97205</p> <p>Pennsylvania, Philadelphia, 2d and Chestnut Streets 19106</p> <p>Pennsylvania, Pittsburgh, Federal Building, 1000 Liberty Avenue 15222</p> <p>South Carolina, Charleston, P.O. Box 905, 29402</p> <p>Tennessee, Memphis, 668 Federal Office Building 38103</p> <p>Tennessee, Nashville, P.O. Box 1070, 37202</p>	<p>Texas, Dallas, Santa Fe Building, 1114 Commerce Street 75202</p> <p>Texas, Fort Worth, P.O. Box 17300, 76102</p> <p>Texas, Galveston, 606 Santa Fe Building, P.O. Box 1229, 77550</p> <p>Virginia, Norfolk, Fort Norfolk, 803 Front Street 23510</p> <p>Washington, Seattle, 1519 South Alaskan Way 98134</p> <p>Washington, Walla Walla, Building 602, City- County Airport 99362</p> <p>West Virginia, Huntington, 502 Eighth Street, P.O. Box 2127, 25721</p> <p>A-81 Commanding General, U.S. Army Weapons Com- mand, Rock Island Arsenal, Rock Island, Ill. 61201</p> <p>A-82 Commanding Officer, Rock Island Arsenal, Rock Island, Ill. 61201</p> <p>A-84 Commanding Officer, Watervliet Arsenal, Water- vliet, N.Y. 12189</p> <p>A-93 Commanding Officer, U.S. Army Pictorial Center 35-11 35th Ave., Long Island City, N.Y. 11106</p> <p>A-100 Procurement Services, Office of Civil Defense, Department of the Army, Washington, D.C.</p> <p>This office is principally engaged in contracting for research, development, testing, evaluation, and training in the various civil defense programs. Shelter supplies are procured by Defense Supply Agency supply centers, Radiac equipment and instruments are procured by General Services Administration, Washington, D.C., office sup- plies and equipment for headquarters are pro- cured by Defense Supply Service, Department of the Army, Washington, and under small pur- chase procedures by the regions located at:</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 30%;">Region 1</td> <td style="width: 70%;">Oak Hill Road Harvard, Mass. 01451</td> </tr> <tr> <td>Region 2</td> <td>Olney, Md. 20832</td> </tr> <tr> <td>Region 3</td> <td>Thomasville, Ga. 31792</td> </tr> <tr> <td>Region 4</td> <td>Federal Center Battlecreek, Mich. 49016</td> </tr> <tr> <td>Region 5</td> <td>Denton Federal Center Denton, Tex. 76202</td> </tr> <tr> <td>Region 6</td> <td>Denver Federal Center Bldg. 50 Denver, Colo. 80225</td> </tr> <tr> <td>Region 7</td> <td>Federal Center Santa Rosa, Calif. 95401</td> </tr> <tr> <td>Region 8</td> <td>Everett, Wash. 98201</td> </tr> </tbody> </table>	Region 1	Oak Hill Road Harvard, Mass. 01451	Region 2	Olney, Md. 20832	Region 3	Thomasville, Ga. 31792	Region 4	Federal Center Battlecreek, Mich. 49016	Region 5	Denton Federal Center Denton, Tex. 76202	Region 6	Denver Federal Center Bldg. 50 Denver, Colo. 80225	Region 7	Federal Center Santa Rosa, Calif. 95401	Region 8	Everett, Wash. 98201
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Department of the Navy Major Purchasing Offices

N-1	Commander, Naval Air Systems Command, Department of the Navy, Washington, D.C. 20360	N-8	Commander, Naval Electronic Systems Command Department of the Navy, Washington, D.C. 20360
N-2	Commander, Naval Ordnance Systems Command, Department of the Navy, Washington, D.C. 20360	N-9	Commanding Officer, Aviation Supply Office, 700 Robbins Avenue, Philadelphia, Pa. 19111
N-3	Commander, Naval Ship Systems Command, Department of the Navy, Washington, D.C. 20360	N-10	Commanding Officer, Navy Electronics Supply Office, Great Lakes, Ill. 60088
N-4	Commander, Naval Facilities Engineering Com- mand, Department of the Navy, Washington, D.C. 20390	N-11	Commanding Officer, Navy Ships Parts Control Center, Naval Supply Depot, Mechanicsburg, Pa. 17055
N-5	Commandant of the Marine Corps. (Code CSG), Headquarters, U.S. Marine Corps, Department of the Navy, Washington, D.C. 20380.	N-19	Director, Naval Research Laboratory, Depart- ment of the Navy, Washington, D.C. 20360
N-6	Officer in Charge, Navy Purchasing Office, Washington Navy Yard, Building 200, Wash- ington, D.C. 20390	N-19a	Commanding Officer and Director, Naval Train- ing Device Center, Orlando Air Force Base, Orlando, Fla. 32813
N-7	Officer in Charge, Navy Purchasing Office, 3d Avenue and 29th Street, Brooklyn, N.Y. 11232	N-21	Commanding Officer, Navy Ships Store Office, 29th Street and 3d Avenue, Brooklyn, N.Y. 11232
			This office exercises management and technical control of Navy ships stores, commissary stores,

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

and exchanges, and purchases equipment for the exchanges. Equipment for commissary stores and ships store is procured by Navy purchasing offices. Merchandise and supplies for resale to military personnel is generally purchased at the local level by individual exchanges, ships stores, and commissary stores. To obtain commissary supplies, Navy exchanges and ships stores may negotiate directly with business firms or use "national price agreements" with suppliers prepared by the Navy Ships Store Office in Brooklyn. Similarly, Navy Commissary Stores may use "price notice agreements" with business firms prepared by the Defense Subsistence Supply Center, Chicago, Ill. Interested business concerns may obtain a listing of Navy resale activities and information concerning procedures to follow to receive consideration as potential suppliers of resale items from the Navy Ships Store Office in Brooklyn.

N-21a Marine Corps Exchange Service Headquarters, U.S. Marine Corps (CHX), Washington, D.C. 20380
 This office exercises management and technical control of Marine Corps exchanges. However, needed equipment and material and merchandise for resale to military personnel are purchased on a local decentralized basis by individual Marine Corps exchanges and commissaries. A listing of Exchanges to contact for sales opportunities may be obtained from the Marine Exchange Service, Headquarters, U.S. Marine Corps (CHX), Department of the Navy, Washington, D.C. 20380

N-23 Officer in Charge, Navy Purchasing Office, South Broadway, Box 5090 Metropolitan Station, Los Angeles, Calif. 90005

N-24 Commanding Officer, Naval Supply Center, Naval Base, Newport, R.I. 02840
 Commanding Officer, Naval Training Center, Great Lakes, Ill. 60088
 Commanding Officer, Naval Supply Depot, Seattle, Wash. 98119
 Commanding Officer, Naval Supply Center, Charleston, S.C. 29411
 Commanding Officer, Naval Supply Center, Oakland, Calif. 94625
 Commanding Officer, Naval Supply Center, Building W 143, Norfolk, Va. 23512
 Commanding Officer, Naval Supply Center, San Diego, Calif. 92131
 Commanding Officer, Naval Supply Center, Pearl Harbor, Hawaii, Mailing Address: Box 300, FPO, San Francisco, Calif. 96610
 Commanding Officer, Naval Supply Depot, Guam, FPO, San Francisco, Calif. 96630

N-25 Commander, Boston Naval Shipyard, Code 530, Boston, Mass. 02129
 Commander, Philadelphia Naval Shipyard, Building 83, Philadelphia, Pa. 19112
 Commander, Charleston Naval Shipyard, Building 7, Charleston, S.C. 29411
 Commander, Portsmouth Naval Shipyard, Portsmouth, N.H. 03801
 Commander, Pearl Harbor Naval Shipyard, Pearl Harbor, Hawaii, FPO San Francisco, Calif. 96614
 Commander, Norfolk Naval Shipyard, Portsmouth, Va. 23709
 Commander, San Francisco Bay Naval Shipyard, Vallejo, California 94592
 Commanding Officer, U.S. Naval Repair Facility, U.S. Naval Station, San Diego, Calif. 92136

N-26 Commanding Officer, Naval Air Station, Patuxent River, Md. 20670
 Commanding Officer, Naval Air Station, Jacksonville, Fla. 32212
 Commanding Officer, Naval Air Station, Pensacola, Fla. 32508
 Commanding Officer, Naval Air Station, Memphis, Tenn. 38115
 Commanding Officer, Naval Air Station, Corpus Christi, Tex. 78419
 Commanding General, Marine Corps Air Station, Cherry Point, N.C. 28533

N-27 Commanding Officer, Naval Avionics Facility, 21st and Arlington Avenue, Indianapolis, Ind. 46218
 Commander, Naval Ordnance Test Station, Pasadena Annex, 3202 E. Foothill Boulevard, Pasadena, Calif. 91107
 Commanding Officer and Director, Navy Underwater Sound Laboratory, Fort Trumbull, New London, Conn. 06320
 Commander, Naval Ordnance Laboratory, White Oak, Silver Spring, Md. 20910
 Commanding Officer, Naval Ordnance Station, 7500 West Roosevelt Road, Forest Park, Ill. 60130
 Commanding Officer, Naval Ordnance Station, Indian Head, Md. 20640
 Commanding Officer, Naval Ordnance Station, Louisville, Ky. 40214
 Commanding Officer and Director, Navy Mine Defense Laboratory, Panama City, Fla. 32402
 Commanding Officer, Naval Torpedo Station, Keyport, Wash. 98345
 Commanding Officer, Naval Weapons Laboratory, Dahlgren, Va. 22448

N-27a Commanding Officer, Naval Ammunition Depot, Crane, Ind. 47522
 Commanding Officer, Naval Ammunition Depot, Hawthorne, Nev. 89415
 Commanding Officer, Naval Ammunition Depot, McAlester, Okla. 74501

N-28 Commanding Officer, Headquarters Support Activity, New Orleans, La. 70140
 Superintendent, Naval Academy, Annapolis, Md. 21402
 Commanding Officer, Naval Station, Key West, Fla. 33040

N-29 Commanding Officer, Naval Submarine Base, New London, Groton, Conn. 06342

N-29a Commanding Officer, Naval Air Engineering Center, Naval Base, Philadelphia, Pa. 19112

N-29b Commanding Officer, Naval Oceanographic Office, Washington, D.C. 20390

N-29c Commanding Officer, Naval Air Development Center, Warminster, Johnsville, Pa. 18974

N-30 Commanding General, Marine Corps Supply Activity, 1100 South Broad St., Philadelphia, Pa. 19146

N-31 Commanding General, Marine Corps Supply Center, Albany, Ga. 31704
 Commanding General, Marine Corps Supply Center, Barstow, Calif. 97312

N-77 Officer in Charge of Construction, NFEC Contracts, Mid Pacific, Pearl Harbor, Hawaii. Mailing: Officer in Charge of Construction, NFEC Contracts, Mid Pacific, FPO San Francisco, Calif. 96610
 Commanding Officer, European Division, Naval Facilities, Engineering Command, London, England. Mail: Commanding Officer, European Division, Naval Facilities Engineering Command, FPO New York, N.Y. 09510
 Officer in Charge of Construction, NFEC Contracts, Madrid, Spain. Mail: Officer in Charge of Construction, Naval Facilities Engineering Command Contracts, APO New York, N.Y. 09285
 Commander, Pacific Division, Naval Facilities Engineering Command, FPO San Francisco, Calif. 96610

MAJOR MILITARY AND COAST GUARD PURCHASING OFFICES

Officer in Charge of Construction, NFEC Contracts, Far East, FPO San Francisco, Calif. 96662

Officer in Charge of Construction, NFEC Contracts, Southwest Pacific, FPO San Francisco, Calif. 96528

Officer in Charge of Construction, NFEC Contracts, Thailand, Bangkok, Thailand. Mail: Officer in Charge of Construction, NFEC Contracts, Thailand, APO San Francisco, Calif. 96346

Officer in Charge of Construction, NFEC Contracts, Republic of Vietnam, Saigon, Republic of Vietnam. Mail: Officer in Charge of Construction, NFEC Contracts, Republic of Vietnam, APO San Francisco, Calif. 96214

Officer in Charge of Construction, NFEC Contracts, Australia. Mail: Officer in Charge of Construction, NFEC Contracts, Australia, FPO San Francisco, Calif. 96680

Commanding Officer, Northeast Division, Naval Facilities Engineering Command, 495 Summer Street, Boston, Mass. 02210

Commanding Officer, Eastern Division, Naval Facilities Engineering Command, 90 Church Street, New York, N.Y. 10007

Commanding Officer, East Central Division Naval Facilities Engineering Command, Building 1, U.S. Naval Base, Philadelphia, Pa. 19112

Commander, Atlantic Division, Naval Facilities Engineering Command, U.S. Naval Base, Norfolk, Va. 23511

Commanding Officer, Chesapeake Division, Naval Facilities Engineering Command, Washington Navy Yard, Washington, D.C. 20390

Commanding Officer, Southeast Division, Naval Facilities Engineering Command, P.O. Box 10068, Charleston, S.C. 29411

Commanding Officer, Gulf Division, Naval Facilities Engineering Command, Building 16, Headquarters Support Activity, New Orleans, La. 70140

Commanding Officer, Caribbean Division, Naval Facilities Engineering Command, San Juan, Puerto Rico. Mail: Commanding Officer, Caribbean Division, Naval Facilities Engineering Command, FPO New York, N.Y. 09550

Commanding Officer, Midwest Division, Naval Facilities Engineering Command, 1220 Pacific Highway, San Diego, Calif. 92132

Commanding Officer, Western Division, Naval Facilities Engineering Command, San Bruno, Calif. 94067

Commanding Officer, Northwest Division, Naval Facilities Engineering Command, 1638 West Lawton Way, Seattle, Wash. 98119

N-79 Commander, Military Sea Transportation Service Department of the Navy, Washington, D.C. 20360

N-79a Contact one or more of the following Offices: Commander, Military Sea Transportation Service, Atlantic Area, 58th Street and 1st Avenue, Brooklyn, N.Y. 11250

Commander, Military Sea Transportation Service, Gulf Sub-Area, 4400 Dauphine Street, New Orleans, La. 70140

Commander, Military Sea Transportation Service, Pacific Area, Naval Supply Center, Oakland, Calif. 94625

N-80 Naval Air Technical Services Facility, 700 Robbins Avenue, Philadelphia, Pa. 19111

N-81 Naval Area Publications and Printing Service Offices. Address inquiries to Director, U.S. Navy Publications and Printing Service Office: Naval District Washington Building 157-2, Washington

Navy Yard, Washington, D.C. 20390

1st Naval District, 495 Summer Street, Brooklyn, N.Y. 11232

4th Naval District, Building 4, Section D, 700 Robbins Avenue, Philadelphia, Pa. 19111

5th Naval District, Building KBB, Norfolk, Va. 23511

6th Naval District, Building 35, U.S. Naval Base, Charleston, S.C. 29408

Navy Publications and Printing Office, Unit 1-3-B 4400 Dauphine St., New Orleans, La. 70140

9th Naval District, Building 2-A, Naval Training Center, Great Lakes, Ill. 60088

11th Naval District, Building 154, U.S. Naval Station, San Diego, Calif. 92136

12th Naval District, Building 84, Mare Island, Vallejo, Calif. 94592

13th Naval District, Code 1326, Building 530, Puget Sound Naval Shipyard, Bremerton, Wash. 98314

Naval Air Training Command, U.S. Naval Air Station, Building 461, Pensacola, Fla. 32508

United States Air Force Major Purchasing Activities

AF-1 Ogden Air Materiel Area, Hill Air Force Base, Ogden, Utah 84401
 a. Generally assigned to the Army or Navy for procurement
 b. For CIM-10, LGM-30, LGM-25C
 c. For B-23, F-89, F-101, F-4
 d. For RF-43 (Marguardt)

AF-2 Oklahoma City Air Materiel Area, Tinker Air Force Base, Oklahoma City, Okla. 73145
 a. Purchases services but not commodities for GAM-72, GAM-77
 b. Purchases services but not commodities for B-47-B-50, B-52, C-97, KC-135, KC-137
 c. For J-33, J-35, J-47, J-71, J-73, J-79, J-85, J-93, T-56, T-58, T-63, T-64, T-78, TF-30

AF-3 Sacramento Air Materiel Area, McClellan Air Force Base, Sacramento, Calif. 95652
 a. For use with the Atlas, Titan, and Thor missiles

AF-4 San Antonio Air Material Area, Kelly Air Force Base, San Antonio, Tex. 78241
 a. For B-58, B-70, C-5, C-45, C-131, F-5, F-102, F-106, F-105, F-11, T-28, T-33, T-39
 b. For Air cooled O-335, Lycoming O-435, Continental O-470, Pratt & Whitney R-985, R-1340, R-1830, R-2000, R-2800, R-4360, Curtiss-Wright R-1300, R-1820, R-3250
 c. For Continental J-69, Wright J-65, Pratt & Whitney J-52, J-57, J-60, J-75, T-34, TF-33, Fairchild J-44

AF-5 Warner-Robins Air Materiel Area, Robins Air Force Base, Warner Robins, Ga. 31093
 a. For AGM-12, AGM-45, AIM-4, AIM-7, AIM-9, AIM-26, CGM-13b, MGM-13A

- b. Purchases services but not commodities for B-57, B-66, C-7A, C-46, C-47, C-54, C-117, C-118, C-119, C-123, C-124, C-130, C-133, C-140, C-141, C-142, HV-16, O-1, P-2E, V-1, V-3, V-4, V-6, V-10, V-17
- c. For H-1, H-3, H-13, H-19, H-21, H-23, H-34, H-43, VH-1F
- d. For BQM-34
- AF-6 Aeronautical Systems Division, Wright-Patterson Air Force Base, Dayton, Ohio 45433
- AF-7 2750th Air Base Wing, Wright-Patterson Air Force Base, Dayton, Ohio 45433
- AF-8 Rome Air Development Center, Griffiss Air Force Base, Rome, N.Y. 13442
- AF-9 1350 Motion Picture Squadron, Military Airlift Command, Wright-Patterson Air Force Base, Dayton, Ohio 45433
- AF-10 Headquarters Military Airlift Command, Scott Air Force Base, Belleville, Ill. 62225
- AF-11 2802 Inertial Guidance and Calibration Group, Newark Air Force Station, Newark, Ohio 43055
- AF-77 Air Force architect-engineer construction contracts may be let by individual Air Force Bases, major Air Commands, Army Corps of Engineers, Air Procurement Districts, and Navy District Public Works Offices. Firms desiring such contracts should contact the offices designated or described below which are in their areas or in areas in which they wish to perform work.

1. *Army Corps Engineers Offices*. See code A-77
2. *Navy District Public Works Offices*. See code N-77
3. *Local Air Force Bases*. See Air Force Installations listed in the local purchases section of this Directory, page 37.
4. *Deputy Director for Facilities Support, Housing Construction Division, Headquarters, U.S. Air Force, Washington, D.C.*

Defense Supply Agency Major Purchasing Offices

D-1 Commander, Defense Personnel Support Center, 2800 South 20th Street, Philadelphia, Pa. 19101
In addition to contacting this Headquarters, contact the Subsistence Regional Headquarters listed below which is nearest your location:

- (1) Chicago Subsistence Regional Headquarters, DPSC 536 South Clark Street, Chicago, Ill. 60605
- (2) Kansas City Subsistence Regional Headquarters, DPSC 623 Hardesty Avenue Kansas City, Mo. 64124
- (3) Los Angeles Subsistence Regional Headquarters, DPSC, 929 South Broadway, Los Angeles, Calif. 90015
- (4) New Orleans Subsistence Regional Headquarters, DPSC 4400 Dauphine Street, New Orleans, La. 70140
- (5) New York Subsistence Regional Headquarters, DPSC, Third Avenue and 29th Street, Brooklyn, N.Y. 11232
- (6) Oakland Subsistence Regional Headquarters, DPSC 2155 Webster Street Alameda, Calif. 94505
- (7) Richmond Subsistence Regional Headquarters, DPSC, Defense General Supply Center, Bellwood, Petersburg Pike Richmond, Va. 23219
- (8) Seattle Subsistence Regional Headquarters, DPSC, Pier 91, Seattle, Wash. 98119

D-4 Defense General Supply Center, Bellwood, Petersburg Pike, Richmond, Va. 23219

D-5 Defense Industrial Supply Center, 700 Robbins Avenue, Philadelphia, Pa. 19111

D-6 Defense Fuel Supply Center, Cameron Station, Building 8, 5010 Duke Street, Alexandria, Va. 22314

D-7 Defense Construction Supply Center, 3990 East Broad Street, Columbus, Ohio 43215
Atlanta Regional Procurement Sub-Office, DCSC, 30 Pryor Street, SW, Atlanta, Ga. 30301
Portland Regional Procurement Sub-Office, DCSC, 783 Pittock Block, Portland, Oreg. 97205

D-9 Defense Electronics Supply Center, 1507 Wilmington Pike, Dayton, Ohio 45401

D-10 Defense Contract Administration Services (DCAS) has taken over the function of some 200 Army, Navy, Air Force, and DSA field contract offices for quality assurance, production expediting, industrial security, and payment of contractors. DCAS is divided into various geographical regional and district offices known as DCASR's and DCASD's. Small Business Specialists are available at the following listed offices to assist small businessmen, especially those seeking subcontracting opportunities.

Director, DCASR, Atlanta; 3100 Maple Drive, NE., Atlanta, Ga. 30305
Chief, DCASD, Birmingham; 908 South 20th Street, Birmingham, Ala. 35205
Chief, DCASD, Orlando; Orlando Air Force Base, Building 2516, Orlando, Fla. 32813
Director, DCASR, Boston; 666 Summer Street, Boston, Mass. 02210
Chief, DCASD, Hartford; 555 Asylum Avenue, Hartford, Conn. 06105
Chief, DCASD, Rochester; 317 Child Street, Rochester, N.Y. 14611
Director, DCASR, Chicago; O'Hare International Airport, P.O. Box 66475, Chicago, Ill. 60666
Chief, DCASD, Indianapolis; Finance Center, U.S. Army, Building 1, Fort Benjamin Harrison, Ind. 46249
Chief, DCASD, Milwaukee; 744 North 4th Street, Milwaukee, Wis. 53202
Director, DCASR, Cleveland; 1240 East Ninth Street, Cleveland, Ohio 44199
Chief, DCASD, Cincinnati; Federal Office Building, 550 Main Street, Cincinnati, Ohio 45202
Chief, DCASD, Dayton; c/o Defense Electronics Supply Center, 1507 Wilmington Pike, Dayton, Ohio 45401
Director, DCASR, Dallas; 500 South Ervay Street, Dallas, Tex. 75201
Director, DCASR, Detroit; 1580 E. Grand Boulevard, Detroit, Mich. 48211
Chief, DCASD, Grand Rapids; 21 Ottawa Avenue NW, Grand Rapids, Mich. 49502
Director, DCASR, Los Angeles; 11099 South LaCienega Boulevard, Los Angeles, Calif. 90045
Chief, DCASD, Anaheim; 1548 South State College Boulevard, Anaheim, Calif. 92805
Chief, DCASD, Pasadena; 125 South Grand Avenue, Pasadena, Calif. 91105
Chief, DCASD, Phoenix; 3800 N. Central Avenue, Phoenix, Ariz. 85012
Chief, DCASD, San Diego; 4297 Pacific Highway, San Diego, Calif. 92110
Chief, DCASD, Van Nuys; 8155 Van Nuys Boulevard, Van Nuys, Calif. 92401
Director, DCASR, New York; 770 Broadway New York, N.Y. 10003
Chief, DCASD, Garden City; 605 Stewart Avenue, Garden City, Long Island, N.Y. 11533

Chief, DCASD, Newark; 240 Route 22, Springfield, N.J. 07081
 Director, DCASR, Philadelphia; 2800 South 20th Street, Philadelphia, Pa. 19101
 Chief, DCASD, Baltimore; Building 22, Fort Holabird, Baltimore, Md. 21219
 Chief, DCASD, Camden; 808 Market Street, Camden, N.J. 08102
 Chief, DCASD, Pittsburgh; 1610 S. Federal Building, 1000 Liberty Avenue, Pittsburgh, Pa. 15222

Chief, DCASD, Reading; 750 Penn Street, Reading, Pa. 19601
 Director, DCASR, San Francisco; 866 Malcolm Road, Burlingame, Calif. 94130
 Chief, DCASD, Oakland; Building 178, Treasure Island, San Francisco, Calif. 94130
 Chief, DCASD, Seattle; Building 5D, U.S. Naval Air Station, Seattle, Wash. 98115
 Director, DCASR, St. Louis; 1136 Washington Avenue, St. Louis, Mo. 63101
 Chief, DCASD, Twin Cities; 2305 Ford Parkway, St. Paul, Minn. 55116

Major Coast Guard Purchasing Offices

<i>Code</i>	<i>Title and Address</i>
CG-1	Chief, Procurement Branch (FS-1), U.S. Coast Guard Headquarters, 1300 E Street, NW., Washington, D.C. 20591
CG-2	Commanding Officer, U.S. Coast Guard Supply Center, 31st Street and 3d Avenue, Brooklyn, N.Y. 11232
CG-3	Commanding Officer, U.S. Coast Guard Yard, Curtis Bay, Baltimore, Md. 21226
CG-4	Aircraft Repair and Supply Center, Elizabeth City, N.C. 27909
CG-5	Superintendent, U.S. Coast Guard Academy, New London, Conn. 06320 Commanding Officer, U.S. Coast Guard Training Center, Governors Island, New York, N.Y. 10004 Commanding Officer, U.S. Coast Guard Training Center, Cape May, N.J. 08204 Commanding Officer, U.S. Coast Guard Reserve Training Center, Yorktown, Va. 23490
CG-6	Commander, First Coast Guard District, John F. Kennedy Federal Building, Government Center, Boston, Mass. 02203 Commander, 2d Coast Guard District, Federal Building, 1520 Market Street, St. Louis, Mo. 63103 Commander, 3d Coast Guard District, Governors Island, New York, N.Y. 10004. Commander, 5th Coast Guard District, Federal Building, 431 Crawford Street, Portsmouth, Va. 23705 Commander, 7th Coast Guard District, 51 SW. 1st Avenue, Miami, Fla. 33130 Commander, 8th Coast Guard District, Customhouse, New Orleans, La. 70130 Commander, 9th Coast Guard District, 1240 East 9th Street, Cleveland, Ohio 44199 Commander, 11th Coast Guard District, Hartwell Building, 19 Pine Avenue, Long Beach, Calif. 90802 Commander, 12th Coast Guard District, 630 Sansome Street, San Francisco, Calif. 94126 Commander, 13th Coast Guard District, 618 2d Avenue, Seattle, Wash. 98104 Commander, 14th Coast Guard District, 1347 Kapiolani Boulevard, Honolulu, Hawaii 96814. Commander, 17th Coast Guard District, P.O. Box 3-5000, Juneau, Alaska 99801
110	Firms which desire subcontract work should consult the following offices and publications: 1. Small Business Administration field offices will counsel small business owners desiring subcontract opportunities, and furnish them lists of prime contractors in their areas to contact for possible subcontract work. Of prime importance is the work of these offices in developing specific subcontract opportunities for qualified small firms. The small business owner should request assistance from the Small Business Administration office which is nearest his place of business.
	2. The following Navy representatives counsel business firms on Navy procurement procedures, including subcontract opportunities in the facilities to which they are assigned: Naval Plant Representative Office, Hayes International Corp., Napier Field Division, Dothan, Ala. 36301 Naval Plant Representative Office, Aerojet General Corp., 110 West Hollyvale Avenue, Azusa, Calif. 91702 Naval Plant Representative Office, Lockheed California Co., P.O. Box 551, Burbank, Calif. 91503 Naval Plant Representative Office, Douglas Aircraft Co., Long Beach, Calif. 90801 Supervisor of Shipbuilding, Conversion & Repair, Long Beach Naval Shipyard, 11th Naval District, Long Beach, Calif. 90802 Naval Plant Representative Office, General Dynamics, Pomona Division, 1675 West 5th Avenue, P.O. Box 2507, Pomona, Calif. 91766. Supervisor of Shipbuilding, Conversion & Repair, Naval Station, Box 119, San Diego, Calif. 92136. Supervisor of Shipbuilding, Conversion & Repair, San Francisco Bay Naval Shipyard, 12th Naval District, San Francisco, Calif. 94135 Naval Plant Representative Office, (Special Projects), Lockheed Missiles & Space Co., P.O. Box 504, Sunnyvale, Calif. 94098 Supervisor of Shipbuilding, Conversion & Repair, General Dynamics Corp., Electronic Boat Division, Groton, Conn. 06340 Naval Plant Representative Office, Pratt & Whitney Aircraft Division, United Aircraft Corp., 400 Main Street, East Hartford, Conn. 06108 Naval Plant Representative Office, Sikorsky Aircraft Corp., Stratford, Conn. 06497 Naval Plant Representative Office, Aero Corp., Lake City, Fla. 32055 Supervisor of Shipbuilding, Conversion & Repair, 1453 Morse Street, P.O. Box 5296, Jacksonville, Fla. 32207 Supervisor of Shipbuilding, Conversion & Repair, Pearl Harbor Naval Shipyard, 14th Naval District, Box 400, Pearl Harbor, Hawaii, Mail: FPO San Francisco Calif. 96610 Resident Supervisor of Shipbuilding, Conversion & Repair, 9th Naval District, Building 3209, Great Lakes, Ill. 60088 Naval Plant Representative Office, The Bendix Corp., 400 South Beiger Street, Mishawaka, Ind. 46544 Supervisor of Shipbuilding, Conversion & Repair, 8th Naval District, Building 263, Hqs., Support Activity, New Orleans, La. 70140 Naval Plant Representative Office, Westinghouse Defense & Space Center, Friendship Airport, P.O. Box 746, Baltimore, Md. 21203

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

Resident Supervisor of Shipbuilding, Conversion & Repair, Maryland Shipbuilding & Dry Dock Co., P.O. Box 1393, Baltimore, Md. 21203
 Naval Plant Representative Office, Applied Physics Laboratory, John Hopkins University, 8621 Georgia Avenue, Silver Spring, Md. 20910
 Supervisor of Shipbuilding, Conversion & Repair, Boston Naval Shipyard, 1st Naval District, Boston, Mass. 02129
 Naval Plant Representative Office, (Special Projects), General Electric Company, 100 Plastics Avenue, Pittsfield, Mass. 01201
 Supervisor of Shipbuilding, Conversion & Repair, Ingalls Shipbuilding Corp., Pascagoula, Miss. 39567
 Naval Plant Representative Office, McDonnell Douglas Corp., P.O. Box 516, St. Louis, Mo. 63166
 Supervisor of Shipbuilding, Conversion & Repair, 4th Naval District, 2430 Broadway, Camden, N.J. 08101
 Naval Plant Representative Office, Grumman Aircraft Engineering Corporation, Bethpage, Long Island, N.Y. 11714
 Supervisor of Shipbuilding, Conversion & Repair, 29th Street & 3d Avenue, Federal Office Building, Brooklyn, N.Y. 11232
 Naval Plant Representative Office, Sperry Gyroscope Co., Great Neck, Long Island, N.Y. 11020.
 Naval Plant Representative Office, Goodyear Aircraft Corp., Akron, Ohio 44305
 Naval Plant Representative Office, North American Aviation, Inc., 4300 East 5th Avenue, Columbus, Ohio 43216
 Naval Plant Representative Office, Vertol Division, Boeing Aircraft Corp., 100 Woodland Avenue, Morton, Pa. 19070
 Supervisor of Shipbuilding, Conversion & Repair, 6th Naval District, Naval Base, Charleston Heights, S.C. 29408
 Naval Plant Representative Office, Ling-Temco-Vought Aerospace Corp., P.O. Box 5907, Dallas, Tex. 75222

Supervisor of Shipbuilding, Conversion & Repair, Newport News Shipbuilding & Dry Dock Company, Newport News, Virginia 23607
 Supervisor of Shipbuilding, Conversion & Repair, Norfolk Naval Shipyard, 5th Naval District, P.O. Box 215, Portsmouth, Va. 23705
 Supervisor of Shipbuilding, Conversion & Repair, 2400 11th Avenue, SW., Seattle, Wash. 98134

3. The Army Corps of Engineers Offices listed under Code A-77, and the Officers in Charge of Construction listed under Code N-77, will furnish, upon request, lists of construction prime contractors to firms seeking construction subcontracting work.

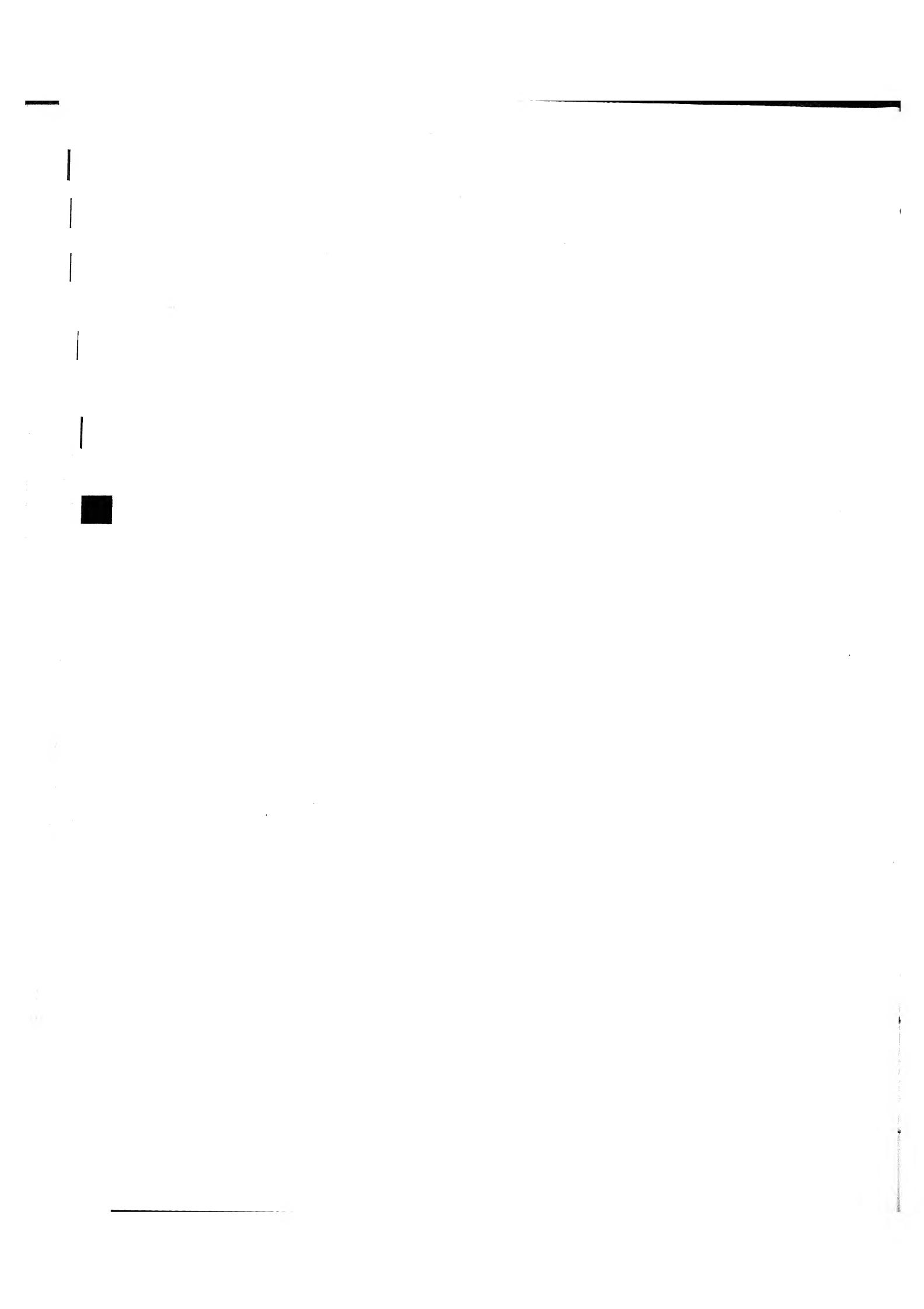
4. The following publications are useful to firms seeking guidance in obtaining subcontracting work:

Selling to Navy Prime Contractors. This pamphlet lists about 400 prime contractors and indicates the company officials to contact for possible subcontract work. The prime contractors have agreed to subcontract to small firms to the greatest extent practicable. Included in this publication is the general category of defense items produced by each prime contractor. This publication also contains advice on how to contact firms for potential subcontract work. This pamphlet is available for 60 cents from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Commerce Business Daily. This publication (issued Mondays through Fridays, except on Federal legal holidays) is a useful guide for firms seeking subcontract work since it provides names of companies receiving current defense contracts and gives the item, quantity and dollar value for each contract. The "Commerce Business Daily" is available on a subscription basis for \$15 per year via regular mail or \$67 via air mail from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Purchase order must be accompanied by remittance. All remittances, only checks or money orders, should be made out to the Superintendent of Documents, U.S. Government Printing Office.

*THE WHEN, WHAT AND WHERE
OF LOCAL MILITARY AND
COAST GUARD PURCHASING*

PART III



LOCAL PURCHASES BY MILITARY AND COAST GUARD INSTALLATIONS

Military installations are authorized to make local purchases and to contract for various services. Local purchases usually can be made under the following conditions: (1) the purchase is small (usually \$2,500, or less); (2) the items to be purchased are perishable; (3) the items are required for maintenance and repair of buildings of the installation, (4) the items are required for the maintenance, rehabilitation and/or repair of military equipment stocked, issued and stored at the installation (depot); or (5) the items are not available through Government supply channels and are needed in carrying out the installation's mission or, in the case of a supply distribution depot, are needed by installations which rely upon the depot to supply them such items.

Examples of items purchased locally are automotive spare parts and supplies, tools and equipment, and office supplies; perishable food items for

troop meals; items sold in post exchanges and ships' stores; those sold in commissaries (perishable and nonperishable food items); and furniture, equipment and supplies for officers' and non-commissioned officers' clubs. Services contracted for included laundry, dry cleaning; custodial service, tailoring, shoe, watch and automotive repairs; construction, repair and maintenance jobs; training aids, job lot printing, packaging, packing and marking; and van and rail shipments.

The military installations listed below are in addition to those listed in the section, "Major Military Purchasing Offices." A firm desiring to supply purchases made by these installations, or by the major installations previously listed, should contact those in the area it can serve, specify the items or services it wishes to sell, and ask to be considered when future purchases are made.

ALABAMA

*Anniston Army Depot, Anniston
North Carolina, South Carolina,
Tennessee, Alabama, Florida,
Georgia, Mississippi
Craig Air Force Base, Selma
Fort McClellan, Anniston
Fort Rucker, Daleville
Maxwell Air Force Base, Montgomery
U.S. Property and Fiscal Office,
State of Alabama, P.O. Box 1331,
Montgomery
Alabama Army Ammunition Plant,
Childersberg

ALASKA

Fort Richardson, APO, Seattle,
Wash. 98749
Fort Wainwright, APO, Seattle,
Wash. 98731
District Army Engineer, Anchorage
Eielson Air Force Base, Fairbanks
Elmendorf Air Force Base, Anchorage
U.S. Naval Station, Adak

*Purchases selected general supply items for storage and distribution as directed by National Inventory Control Points and Commodity Commands, in addition to local purchases of commercial type items used and consumed by the depot.

ALASKA—Continued

U.S. Naval Station, Kodiak
U.S. Coast Guard Supply Depot,
Ketchikan
U.S. Coast Guard Air Station, Annette Island
U.S. Coast Guard Air Station, Kodiak

ARIZONA

Davis-Monthan Air Force Base,
Tucson
U.S. Army Garrison, Fort Huachuca
Luke Air Force Base, Phoenix
Marine Corps Air Station, Yuma
Navajo Army Depot, Flagstaff
Naval Air Facility, Phoenix
U.S. Property and Fiscal Office,
State of Arizona, 747 West Van
Buren Street, Phoenix
William Air Force Base, Chandler
Yuma Proving Ground, Yuma

ARKANSAS

Blytheville Air Force Base, Blytheville
Fort Chaffee, Fort Smith
Little Rock Air Force Base, Little Rock
Pine Bluff Arsenal, Pine Bluff
U.S. Property and Fiscal Office,
State of Arkansas, Camp Joseph
T. Robinson, Little Rock

CALIFORNIA

Alameda Administration Center,
2155 Webster Avenue, Alameda
Beale Air Force Base, Marysville
Castle Air Force Base, Merced
Edwards Air Force Base, Edwards
Fort Irwin, Barstow
Fort MacArthur, San Pedro
Fort Ord, Monterey
George Air Force Base, Victorville
Hamilton Air Force Base, Ignacio
Letterman General Hospital, Presidio of San Francisco
U.S. Coast Guard Supply Center,
Alameda
U.S. Coast Guard Base, Terminal Island
U.S. Coast Guard Air Station, San Diego
U.S. Coast Guard Air Station, San Francisco
March Air Force Base, Riverside
Marine Corps Air Station, El Toro
Marine Corps Base, Camp Pendleton
Marine Corps Base, Twenty-nine Palms
Marine Corps Recruit Depot, San Diego
Mather Air Force Base, Sacramento
McClellan Air Force Base, Sacramento

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

CALIFORNIA—Continued

Naval Air Station, Alameda
 Naval Air Station, Memeore
 Naval Air Station, Los Alamitos
 Naval Air Station, Miramar
 Naval Air Station, Moffett Field
 Naval Air Station, North Island, San Diego
 Naval Ammunition and Net Depot, Seal Beach
 Naval Ammunition Depot, Concord
 Naval Ammunition Depot, Fallbrook
 Naval Construction Battalion Center, Port Hueneme
 Naval Electronics Laboratory, Corona
 Naval Hospital, Camp Pendleton
 Naval Hospital, Oakland
 Naval Hospital, San Diego
 Naval Missile Facility, Point Arguello
 Naval Ordnance Laboratory, Corona
 Naval Post Graduate School, Monterey
 Naval Repair Facility, San Diego
 Naval Station, Treasure Island, San Francisco
 Naval Training Center, San Diego
 Norton Air Force Base, San Bernardino
 Oxnard Air Force Base, Camarillo
 Pacific Missile Range, Point Mugu
 Presidio of San Francisco, San Francisco
 Riverbank Army Ammunition Plant, Riverbank
 Sacramento Army Depot, Sacramento
 Sharpe Army Depot, Lathrop
 Sierra Army Depot, Herlong
 Travis Air Force Base, Fairfield
 U.S. Property and Fiscal Office, State of California, P.O. Box 1139, Sacramento
 Vandenberg Air Force Base, Lompoc
 Western Area, Military Traffic Management and Terminal Service, Oakland Army Base, Oakland 94626

COLORADO

Air Force Academy, Colorado Springs
 Air Force Finance Center, 3800 York Street, Denver
 Ent Air Force Base, Colorado Springs
 Fitzsimmons General Hospital, Denver
 Fort Carson, Colorado Springs
 Lowry Air Force Base, Denver
 Procurement Division, Rocky Mountain Arsenal, Denver
 U.S. Property and Fiscal Office, State of Colorado, Camp George West, Golden

CONNECTICUT

Bradley Field, Windsor Locks
 Naval Underwater Sound Laboratory, Fort Trumbull, New London
 U.S. Property and Fiscal Office, State of Connecticut, State Armory, 360 Broad Street, Hartford

DELAWARE

Dover Air Force Base, Dover
 New Castle County Airport, Wilmington
 U.S. Property and Fiscal Office, State of Delaware, P.O. Box 607, Wilmington

DISTRICT OF COLUMBIA

Army Map Service, 6500 Brooks Lane, NW, Washington, D.C.
 Bolling Air Force Base, Washington, D.C.
 Naval Air Facility, Washington, D.C.
 Naval Communications Station, Washington, D.C.
 Naval Dispensary, Washington, D.C.
 Naval Research Laboratory, Anacostia, Washington, D.C.
 Naval Security Station, Washington, D.C.
 Naval Station, Washington, D.C.
 National Guard Bureau, Room 3D165, Pentagon, Washington, D.C.
 Office of the Surgeon General, Department of the Army, Washington, D.C. 20315
 U.S. Army Harry Diamond Laboratories, Washington, D.C.
 U.S. Property and Fiscal Office, District of Columbia, 2001 East Capitol Street, Washington, D.C.
 Walter Reed Army Medical Center, Washington, D.C.
 Washington National Airport, Washington, D.C. (Gravelly Point, Va.)
 Administration Office, Navy Department, Procurement Branch, Washington, D.C.

FLORIDA

Eglin Air Force Base, Valparaiso
 Eglin Air Force Base Auxiliary, Field No. 9, Valparaiso
 Florida Group, Atlantic Reserve Fleet, Green Cove Springs
 Homestead Air Force Base, Homestead
 McCoy Air Force Base, Orlando
 MacDill Air Force Base, Tampa
 United States Coast Guard Supply Depot, Miami
 U.S. Coast Guard Air Station, Miami
 U.S. Coast Guard Air Station, St. Petersburg
 Miami International Airport, Miami
 Naval Air Station, Cecil Field
 Naval Air Station, Key West
 Naval Air Station, Sanford
 Naval Aviation Medical Center, Pensacola
 Naval Hospital, Key West
 Naval Station, Mayport
 Naval Underwater Sound Reference Laboratory, Orlando
 Orlando Air Force Base, Orlando
 Patrick Air Force Base, Cocoa
 Tyndall Air Force Base, Panama City
 U.S. Property and Fiscal Office, State of Florida, State Arsenal, St. Augustine

GEORGIA

Atlanta Army Depot, Forest Park
 Dobbins Air Force Base, Marietta
 Fort Benning, Columbia
 Fort Gordon, Augusta
 Fort McPherson, Atlanta
 Fort Stewart, Hinesville, P.O. Box 8337

Moody Air Force Base, Valdosta
 Naval Air Station, Atlanta
 Naval Air Station, Glyncroft
 Robins Air Force Base, Warner Robins
 Turner Air Force Base, Albany
 U.S. Property and Fiscal Office, State of Georgia, 959 E. Confederate Avenue, SE, Atlanta

HAWAII

Contracting Division, C4 Office, USARHAW, P.O. Box 222, Honolulu
 District Army Engineer, Honolulu
 Hickham Air Force Base, Hickham AFB
 Marine Corps Air Station, Kaneohe, Oahu
 Naval Supply Center, Pearl Harbor
 Naval Air Station, Barbers Point, Oahu
 U.S. Coast Guard Supply Depot, San Island, Honolulu
 U.S. Coast Guard Air Station, Barbers Point, Honolulu
 Wheeler Air Force Base, Wheeler Air Force Base

IDAHO

Mountain Home Air Force Base, Mountain Home
 U.S. Property and Fiscal Office, State of Idaho, Box 1098, Boise

ILLINOIS

Chanute Air Force Base, Rantoul
 Fort Sheridan, Highwood
 Granite City Army Depot, Granite City
 Joliet Army Ammunition Plant, Joliet
 Mid-Western Regional Office, U.S. Army Signal Supply Agency, 400 South Jefferson Street, Chicago
 Naval Air Station, Glenview
 Naval Hospital, Great Lakes
 O'Hair International Airport, Chicago
 Savanna Army Depot, Savanna
 U.S. Army Support Command, 1819 West Pershing Road, Chicago
 Scott Air Force Base, Belleville
 U.S. Property and Fiscal Office, State of Illinois, Illinois National Guard General Depot, Box 459, Springfield
 U.S. Coast Guard Supply Depot, c/o U.S. Naval Supply Depot, Great Lakes

INDIANA

Bakalar Air Force Base, Columbus
 Grissom Air Force, Peru
 Fort Benjamin Harrison, Indianapolis
 Jefferson Proving Ground, Madison
 Indiana Army Ammunition Plant, Charlestown
 Newport Army Ammunition Plant, Newport

LOCAL PURCHASES BY MILITARY AND COAST GUARD INSTALLATIONS

39

INDIANA—Continued
 U.S. Property and Fiscal Office,
 State of Indiana, Stout Field, W-I
 Station, Indianapolis
 Wabash River Army Ammunition
 Plant, Newport

IOWA
 Iowa Army Ammunition Plant,
 Burlington
 Sioux City Municipal Airport, Sioux
 City
 U.S. Property and Fiscal Office,
 State of Iowa, Camp Dodge,
 Grimes

KANSAS
 Forbes Air Force Base, Topeka
 Fort Leavenworth, Fort Leaven-
 worth
 Fort Riley, Junction City
 Kansas Army Ammunition Plant,
 Parsons
 McConnel Air Force Base, Wichita
 Naval Air Station, Olathe
 Sunflower Army Ammunition Plant,
 Lawrence
 U.S. Property and Fiscal Office,
 State of Kansas, 27th and Kansas
 Avenue, Topeka

KENTUCKY
 Fort Campbell, Hopkinsville
 U.S. Army Armor Center, Fort Knox
 Lexington Bluegrass Army Depot,
 Lexington
 U.S. Property and Fiscal Office,
 State of Kentucky, Box AA,
 Cherokee Station, Louisville

LOUISIANA
 Barksdale Air Force Base, Shreve-
 port
 Baton Rouge Air Force Station,
 Baton Rouge
 England Air Force Base, Alexandria
 Fort Polk, Leesville
 Louisiana Army Ammunition Plant,
 Shreveport
 Headquarters, Naval Support Ac-
 tivity, New Orleans
 Naval Air Station, New Orleans
 Naval Auxiliary Air Station, New
 Iberia
 U.S. Property and Fiscal Office,
 State of Louisiana, Jackson Bar-
 racks, New Orleans
 U.S. Coast Guard Supply Depot,
 New Orleans

MAINE
 Dow Air Force, Bangor
 Loring Air Force Base, Limestone
 Naval Air Station, Brunswick
 U.S. Property and Fiscal Office,
 State of Maine, Camp Keyes, Au-
 gusta
 U.S. Coast Guard Base, South Port-
 land

MARIANAS ISLANDS
 U.S. Naval Supply Depot, Guam

MARYLAND
 Aberdeen Proving Ground
 Andrews Air Force Base, Camp
 Springs
 Annapolis Division, Naval Ship Re-
 search and Development Center,
 Annapolis
 Naval Ship Research and Develop-
 ment Center, Carderock
 Fort George G. Meade

MARYLAND—Continued
 Naval Medical Center, Bethesda
 Naval Training Center, Bainbridge
 U.S. Army Intelligence Center, Fort
 Holabird, Baltimore
 U.S. Army Signal Procurement Of-
 fice, Fort George G. Meade
 U.S. Property and Fiscal Office,
 State of Maryland, State Military
 Reservation, Havre de Grace

MASSACHUSETTS
 Boston Army Base, Boston
 Fort Devens, Ayer
 Laurence G. Hanscom Field, Bed-
 ford
 Naval Air Station, S. Weymouth
 Naval Ammunition Depot, Hingham
 Naval Hospital, Chelsea
 Naval Station, Boston
 Otis Air Force Base, Falmouth
 U.S. Army Natick Laboratories,
 Natick

U.S. Property and Fiscal Office,
 State of Massachusetts, 905 Com-
 monwealth Avenue, Boston
 Westover Air Force Base, Chicopee
 Falls

U.S. Coast Guard Supply Depot,
 Boston
U.S. Coast Guard Base, Woods Hole
U.S. Coast Guard Air Station,
 Salem

MICHIGAN
 K. I. Sawyer Air Force Base, Gwinn
 Kincheloe Air Force Base, Kinross
 Naval Air Station, Grosse Ile
 Selfridge Air Force Base, Mount
 Clemens
 U.S. Property and Fiscal Office,
 State of Michigan, P.O. Box 958,
 Lansing

Wurtsmith Air Force Base, Oscoda
U.S. Coast Guard Base, Sault Ste.
 Marie
U.S. Coast Guard Base, Detroit
U.S. Coast Guard Air Station,
 Traverse City

MINNESOTA
 Duluth International Airport, Du-
 luth
 Minneapolis-St. Paul International
 Airport, Minneapolis
 Naval Air Station, Minneapolis
 Twin Cities Army Ammunition
 Plant, Minneapolis
 U.S. Property and Fiscal Office,
 State of Minnesota, Camp Ripley
 Military Reservation, Little Falls

MISSISSIPPI
 Columbus Air Force Base, Columbus
 Naval Construction Battalion Cen-
 ter, Gulfport
 Keesler Air Force Base, Biloxi
 Naval Auxiliary Air Station, Me-
 ridian
 U.S. Property and Fiscal Office,
 State of Mississippi, P.O. Box
 1220, Jackson

MISSOURI
 Aeronautical Chart and Information
 Center, St. Louis
 Fort Leonard Wood
 Department of Defense Military
 Personnel Records Center, 9700
 Page Boulevard, St. Louis

MISSOURI—Continued
 Kansas City Records Center, Kansas
 City
 Lake City Army Ammunition Plant,
 Independence
 St. Louis Army Ammunition Plant,
 St. Louis
 Richards-Gebaur Air Force Base,
 Grandview
 U.S. Property and Fiscal Office,
 State of Missouri, 1701 Industrial
 Avenue, Jefferson City
 Whiteman Air Force Base, Knob-
 noster
 U.S. Coast Guard Base, St. Louis

MONTANA
 Glasgow Air Force Base, Glasgow
 Malmstrom Air Force Base, Great
 Falls
 U.S. Property and Fiscal Office,
 State of Montana, 1100 North
 Main Street, Helena

NEBRASKA
 Cornhusker Army Ammunition
 Plant, Grand Island
 Lincoln Air Force Base, Lincoln
 Naval Ammunition Depot, Hastings
 Offutt Air Force Base, Omaha
 U.S. Property and Fiscal Office,
 State of Nebraska, Building 1154,
 Huskerville, Lincoln

NEVADA
 Camp Desert Rock, Las Vegas
 Naval Ammunition Depot, Haw-
 thorne
 Nellis Air Force Base, Las Vegas
 Stead Air Force Base, Reno
 U.S. Property and Fiscal Office,
 State of Nevada, 406 East 2d
 Street, Carson City

NEW HAMPSHIRE
 Grenier Field, Manchester
 Pease Air Force Base, Portsmouth
 U.S. Property and Fiscal Office,
 State of New Hampshire, State
 Military Reservation, Concord

NEW JERSEY
 Burlington Army Ammunition
 Plant, Burlington
 Fort Dix, Wrightstown
 McGuire Air Force Base, Wrights-
 town
 Naval Air Station, Lakehurst
 Naval Air Turbine Test Station,
 Trenton
 Naval Ammunition Depot, Earle
 Naval Supply Center, Bayonne
 U.S. Property and Fiscal Office,
 State of New Jersey, The Armory,
 Armory Drive, Trenton
 U.S. Coast Guard Base, Gloucester
 City

NEW MEXICO
 Commander, Field Command, De-
 fense Atomic Support Agency,
 P.O. Box 5100, Albuquerque
 Cannon Air Force Base, Clovis
 Holloman Air Force Base, Alamo-
 gordo
 Kirtland Air Force Base, Albuquer-
 que
 Naval Ordnance Missile Test Facil-
 ity, Proving Ground, Las Cruces

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

NEW MEXICO—Continued
 U.S. Property and Fiscal Office,
 State of New Mexico, Kirtland
 Air Force Base, Box 495, Albu-
 querque
 White Sands Missile Range, White
 Sands

NEW YORK
 Camp Drum, Watertown
 Eastern Area, Military Traffic Man-
 agement and Terminal Service,
 First Avenue and 58th Street,
 Brooklyn
 First U.S. Army Medical Labora-
 tory, New York
 Fort Hamilton, Brooklyn
 U.S. Army Support Center, Niagara
 Falls
 Griffiss Air Force Base, Rome
 Naval Air Station, Floyd Bennett
 Field, Brooklyn
 Naval Correspondence Center, Scotia
 Niagara Falls Municipal Airport,
 Niagara Falls
 Niagara Falls Army Chemical
 Plant, Niagara Falls
 Plattsburgh Air Force Base, Platts-
 burgh
 U.S. Coast Guard Base, St. George,
 Staten Island
 U.S. Coast Guard Air Station,
 Brooklyn
 New York Group, U.S. Coast Guard
 Station, Battery Park, N.Y. 10004
 Seneca Army Depot, Romulua
 Staten Island Terminal, Staten
 Island
 Stewart Air Force Base, Newburgh
 Suffolk County Air Force Base, West
 Hampton Beach, Long Island
 U.S. Military Academy, West Point
 U.S. Naval Hospital, St. Albans,
 Long Island
 U.S. Property and Fiscal Office,
 State of New York, 201—64th
 Street, Brooklyn

NORTH CAROLINA
 Camp Mackall, Hoffman
 Fort Bragg, Fayetteville
 Marine Corps Air Facility, New
 River
 Marine Corps Air Station, Cherry
 Point
 Marine Corps Base, Camp Lejeune
 Naval Hospital, Camp Lejeune
 Naval Medical Field Research Lab-
 oratory, Marine Barracks, Camp
 Lejeune
 Pope Air Force Base, Fort Bragg
 Seymour Johnson Air Force Base,
 Goldsboro
 U.S. Property and Fiscal Office,
 State of North Carolina, P.O. Box
 791, Raleigh

NORTH DAKOTA
 Grand Forks Air Force Base, Grand
 Rapids
 Minot Air Force Base, Minot
 U.S. Property and Fiscal Office,
 State of North Dakota, Fraine
 Barracks, Bismarck

OHIO
 Clinton County Air Force Base,
 Wilmington

OHIO—Continued
 Engineer Maintenance Center, Corps
 of Engineers, U.S. Army, P.O.
 Box 119, 52 Starling Street,
 Columbus
 Headquarters, XX U.S. Army Corps,
 Fort Hayes, Columbus
 Lockbourne Air Force Base, Colum-
 bus
 Lordstown Military Reservation,
 Warren
 Marion Engineer Depot, Corps of
 Engineers, U.S. Army, Marion
 Navy Finance Center, Cleveland
 Newark Air Force Station, Newark
 Revenna Army Ammunition Plant,
 Ravenna
 U.S. Property and Fiscal Office,
 State of Ohio, Building 101, Fort
 Hayes, Columbus
 Wright-Patterson Air Force Base,
 Dayton
 Youngstown Municipal Airport,
 Youngstown

OKLAHOMA
 Altus Air Force Base, Altus
 Clinton Sherman Air Force Base,
 Clinton
 Fort Sill, Lawton
 Tinker Air Force Base, Oklahoma
 City
 U.S. Property and Fiscal Office,
 State of Oklahoma, 2205 N. Cen-
 tral, Oklahoma City
 Vance Air Force Base, Enid

OREGON
 Adair Air Force Station, Corvallis
 Kingsley Field, Klamath Falls
 Umatilla Army Depot, Hermiston
 U.S. Property and Fiscal Office,
 State of Oregon, Room 504, State
 Office Building, Salem

PENNSYLVANIA
 Carlisle Barracks, Carlisle
 Greater Pittsburgh Airport, Cora-
 polis
 Headquarters XXI Corps, Indian-
 town Gap Military Reservation,
 Annville
 *Letterkenny Army Depot, Cham-
 bersburg. (Delaware, Maryland,
 Pennsylvania, Virginia, Connect-
 icut, Maine, Massachusetts, New
 Hampshire, New Jersey, Rhode
 Island, Vermont)
 Naval Air Station, Willow Grove
 Naval Hospital, Philadelphia
 Naval Supply Depot, Mechanicsburg
 Naval Supply Depot, Philadelphia
 New Cumberland Army Depot, New
 Cumberland
 Scranton Army Ammunition Plant,
 Scranton
 Tobyhanna Army Depot, Tobyhanna
 U.S. Property and Fiscal Office,
 State of Pennsylvania, Indian-
 town Gap Military Reservation,
 RFD No. 2, Annville
 U.S. Army War College and Car-
 lisle Barracks, Carlisle Barracks

PENNSYLVANIA—Continued
 Valley Forge General Hospital,
 Phoenixville
 Willow Grove Air Reserve Facility,
 Willow Grove

RHODE ISLAND
 Naval Air Station, Quonset Point
 U.S. Naval Construction Battalion
 Center, Davisville
 U.S. Property and Fiscal Office,
 State of Rhode Island, 51 Stenton
 Avenue, Providence

SOUTH CAROLINA
 Charleston Air Force Base, Charles-
 ton
 Charleston Army Depot, North
 Charleston
 Fort Jackson, Columbia
 Marine Corps Air Station, Beaufort
 Marine Corps Recruit Depot, Parris
 Island
 Myrtle Beach Air Force Base,
 Myrtle Beach
 Naval Hospital, Beaufort
 Naval Hospital, Charleston
 Naval Weapons Annex, Charleston
 Shaw Air Force Base, Sumter
 U.S. Property and Fiscal Office,
 State of South Carolina, Room
 107, Wade Hampton Street Office
 Building, Columbia
 U.S. Coast Guard Base, Charleston

SOUTH DAKOTA
 Ellsworth Air Force Base, Rapid
 City
 U.S. Property and Fiscal Office,
 State of South Dakota, Camp
 Rapid, Rapid City

TENNESSEE
 Arnold Air Force Station, Tulla-
 homa
 Holston Army Ammunition Plant,
 Kingsport
 McGhee-Tyson Municipal Airport,
 Knoxville
 Memphis Defense Depot, (DSA),
 Memphis
 Memphis Municipal Airport, Mem-
 phis
 Milan Army Ammunition Plant,
 Milan
 Naval Hospital, Memphis
 Sewart Air Force Base, Smyrna
 U.S. Property and Fiscal Office,
 State of Tennessee, Vultee Boule-
 vard, Nashville
 Volunteer Army Ammunition Plant,
 Chattanooga

TEXAS
 Air Force Security Service, San
 Antonio
 Amarillo Air Force Base, Amarillo
 Bergstrom Air Force Base, Austin
 Biggs Air Force Base, El Paso
 Brooke Army Medical Center, Fort
 Sam Houston
 Brooks Air Force Base, San Antonio
 Carswell Air Force Base, Fort
 Worth
 Dyess Air Force Base, Abilene
 Ellington Air Force Base, Houston
 Fort Bliss, El Paso
 Fort Hood, Killeen
 Fort Sam Houston, San Antonio
 Fort Walters, Mineral Wells

*Purchased selected general supply items
 for storage and distribution as directed by
 National Inventory Control Points and
 Commodity Commands, in addition to local
 purchases of commercial type items used
 and consumed by the depot.

LOCAL PURCHASES BY MILITARY AND COAST GUARD INSTALLATIONS

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TEXAS—Continued

Headquarters VII U.S. Army Corps, Austin
Goodfellow Air Force Base, San Angelo
Hensley Field, Grand Prairie
Kelly Air Force Base, San Antonio
Lackland Air Force Base, San Antonio
Laredo Air Force Base, Laredo
Laughlin Air Force Base, Del Rio
Lone Star Army Ammunition Plant, Texarkana
Longhorn Army Ammunition Plant, Marshall
Naval Auxiliary Air Station, Chase Field, Beeville
Naval Auxiliary Air Station, Kingsville
Naval Hospital, Corpus Christi
Pantex Ordnance Plant, Amarillo
Perrin Air Force Base, Sherman
Randolph Air Force Base, San Antonio
*Red River Army Depot, Texarkana
Reese Air Force Base, Lubbock
San Jacinto Ammonia Works, San Jacinto Ordnance Depot
Sheppard Air Force Base, Wichita Falls
Texas Group, Atlantic Reserve Fleet, Orange
U.S. Naval Hospital, Corpus Christi
U.S. Army Aeronautic Maintenance Depot, Corpus Christi
U.S. Property and Fiscal Office, State of Texas, P.O. Box 5218, West Austin Station, Austin
Waco 12th Air Force Headquarters Office, Waco
Webb Air Force Base, Big Spring
William Beaumont General Hospital, El Paso
U.S. Coast Guard Base, Galveston

UTAH
Dugway Procurement Division, Salt Lake City

*Purchases selected general supply items for storage and distribution as directed by National Inventory Control Points and Commodity Commands, in addition to local purchases of commercial type items used and consumed by the depot.

UTAH—Continued

U.S. Army Support Detachment, Salt Lake City
Hill Air Force Base, Ogden
Naval Oceanographic Distribution Office, Clearfield, Ogden
Tooele Army Depot, Tooele
U.S. Property and Fiscal Office, State of Utah, Building 104, Fort Douglas
Ogden Defense Depot, (DSA), Ogden

VERMONT
U.S. Property and Fiscal Office, State of Vermont, Building No. 1, Camp Johnson, Winooski

VIRGINIA
Arlington Hall Station, Arlington
Armed Forces Staff College, Norfolk
Byrd Field, Richmond
Cameron Station, 5010 Duke Street, Alexandria
Fort Monroe, Hampton
Fort Meyer, Arlington
Langley Air Force Base, Hampton
Marine Corps Air Station, Quantico
Marine Corps Schools, Quantico
Naval Air Station, Norfolk
Naval Air Station, Oceana, Virginia Beach
Naval Ammunition Depot, St. Juliens Creek, Portsmouth
Naval Amphibious Base, Little Creek, Norfolk
Naval Hospital, Portsmouth
Naval Hospital, Quantico
Naval Weapons Station, Yorktown
Radford Army Ammunition Plant, Radford
U.S. Army Research and Development Laboratories, Fort Belvoir, Va. 22060
U.S. Army Aviation Materiel Laboratories, Fort Eustis, Va. 23604
The Judge Advocate School, Charlottesville
U.S. Fleet Anti-Air Warfare Training Center, Damneck, Virginia Beach
U.S. Property and Fiscal Office, State of Virginia, Room 107, State Office Building, Richmond

VIRGINIA—Continued

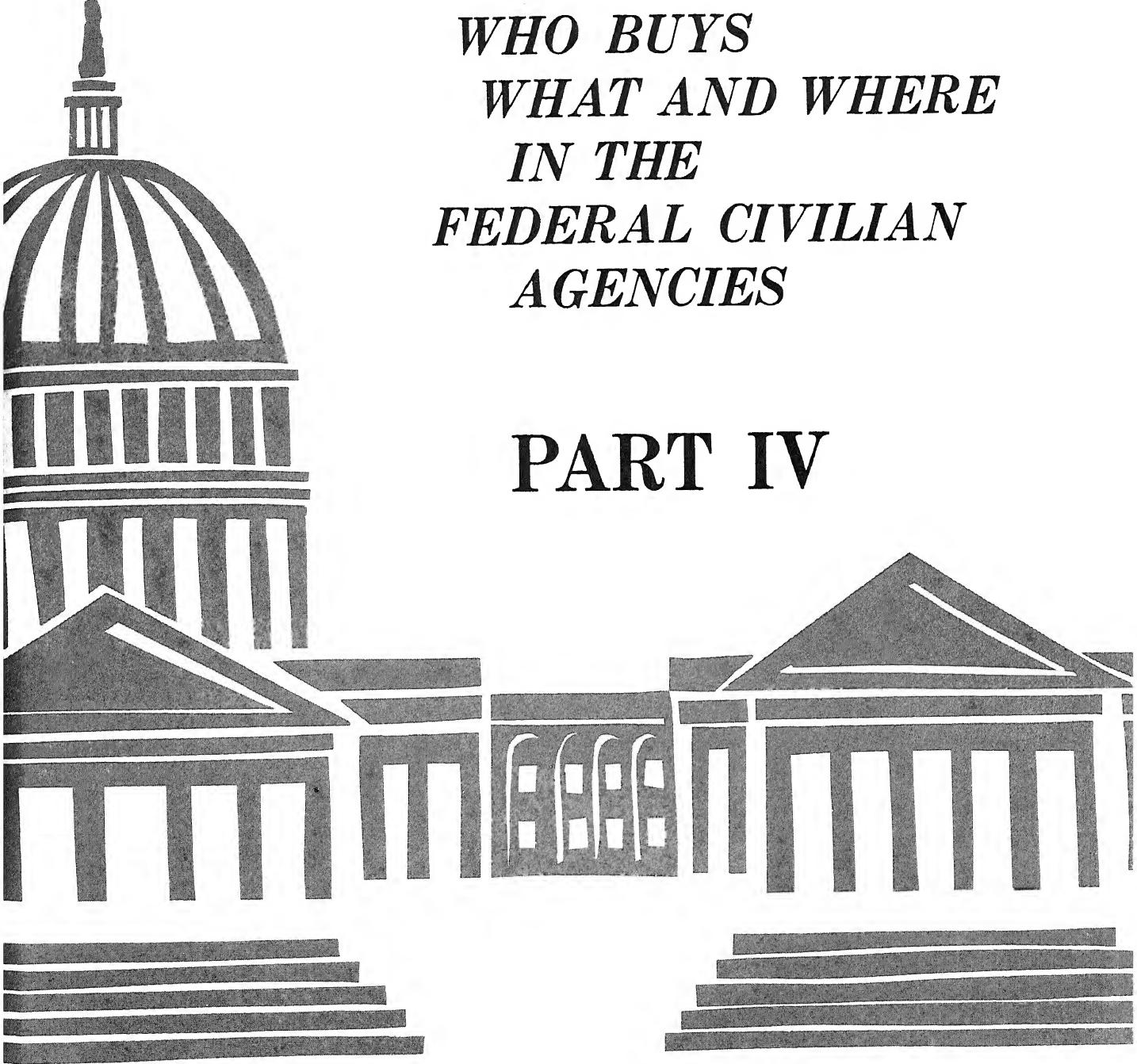
Vint Hill Farms Station, Warrenton
U.S. Coast Guard Supply Depot, Portsmouth
Norfolk Group, U.S. Coast Guard, Norfolk
U.S. Coast Guard Radio Station, Alexandria

WASHINGTON
Fairchild Air Force Base, Spokane
Fort Lewis, Tacoma
Geiger Field, Spokane
Larson Air Force Base, Moses Lake
Madigan General Hospital, Tacoma
McChord Air Force Base, Tacoma
Naval Air Station, Seattle
Naval Air Station, Whidbey Island, Oak Harbor
Paine Field, Everett
Seattle Army Terminal, 1519 South Alaskan Way, Seattle
Tulalip Back-Up Storage Area, Marysville
U.S. Property and Fiscal Office, State of Washington, Camp Murray, Fort Lewis, Tacoma
U.S. Coast Guard Supply Depot, Seattle
U.S. Coast Guard Air Station, Port Angeles

WEST VIRGINIA
U.S. Property and Fiscal Office, State of West Virginia, Point Pleasant

WISCONSIN
Badger Army Ammunition Plant, Baraboo
Camp McCoy, Sparta
General Billy Mitchell Field, Milwaukee
Truax Field, Madison
2473d Air Reserve Flying Center, Milwaukee
U.S. Property and Fiscal Office, State of Wisconsin, Camp Douglas
U.S. Coast Guard Base, Milwaukee

WYOMING
Francis E. Warren Air Force Base, Cheyenne
U.S. Property and Fiscal Office, State of Wyoming, 604 East 25th Street, Cheyenne



*WHO BUYS
WHAT AND WHERE
IN THE
FEDERAL CIVILIAN
AGENCIES*

PART IV



PRODUCTS AND SERVICES BOUGHT BY THE MAJOR FEDERAL CIVILIAN PURCHASING OFFICES

Ablative heat shields, 285.
Abrasive belts, 253, 254, 285, 380, 440, 475, 480, 515.
Abrasive cloth, 253, 254, 285, 380, 440, 480.
Abrasive cutting machines, 200, 285, 380, 450.
Abrasive disks, except dental, 253, 254, 285, 380, 414, 440, 450.
Abrasive materials, except dental, 200, 253, 254, 285, 380, 440, 450, 475, 480, 506.
Abrasive papers, except dental, 252, 253, 254, 285, 380, 440, 475, 480.
Abrasive polishing compounds, except dental, 253, 285, 380, 440, 480.
Abrasive powders, except dental, 200, 285, 380, 440, 480.
Abrasive rouge, except dental, 285, 380, 440.
Abrasive stones, except dental, 253, 285, 380, 440, 450, 480.
Abrasive wheels, except dental, 253, 254, 285, 380, 440, 450, 475, 480, 490, 515.
Abrasives, dental, 200, 416, 440, 502, 506.
Abrasives, metal finishing, 200, 253, 285, 380, 440, 475, 480.
Accelerometers, 160, 160a, 285.
Accounting machines, 200, 280, 380, 416, 440, 475, 515.
Accumulators, aircraft, 285.
Acetate, plastic, 104, 109, 200, 285, 380, 450, 475, 502, 517.
Acetone, 285, 380, 440, 450, 480, 502.
Acids, inorganic, 200, 285, 380, 440.
Acrylite, 380, 502.
Actinic (ultraviolet) commercial processing units, 380.
Activated Carbon, 475.
Actuators, hydraulic, aircraft, 285.
Actuators, electric motor, pneumatic, rotary, solenoid, thermal, 285, 475.
Adapters, electrical, 109, 160, 160a, 162, 200, 285, 380, 440, 475, 480.
Additive metallic materials, 380, 440.
Address plate frames, mounting, 380, 440.
Addressing machine plate embossing service, 380, 440, 475.
Addressing machines, 200, 253, 254, 380, 416, 440, 506, 515.
Adhesive cements, 190, 191, 200, 253, 254, 285, 380, 440, 480, 503a.
Adhesives, 102, 200, 253, 254, 285, 350, 380, 440, 450, 475, 480, 490, 502, 515.
Advertising displays, 380, 415, 480.
Aerial cameras, motion picture, 285, 410, 411, 413, 414.
Aerial cameras, still picture, 285, 380, 513, 517.

Aerial photography, 102, 102a, 103, 107, 109, 285, 380, 480, 511, 513, 514, 517, 518.
Aerial Spraying, 102, 106, 380, 480, 512, 513, 514, 518, 519.
Agriculture implements, supplies and equipment, 102, 103, 104, 106, 107, 200, 253, 285, 380, 440, 480, 512, 513.
Agricultural products, crude, 200, 380, 440, 512.
Air circulators, nonindustrial, 102, 107, 285, 350, 380, 440, 480, 506, 515.
Air cleaners, engine, 102, 200, 280, 380, 440, 475.
Air-conditioning integral self-contained units, 102, 106, 107, 160, 162, 165, 166, 200, 252, 253, 285, 303, 305, 380, 415, 440, 480, 515, 517, 519.
Air-conditioning room-type units, 104, 106, 107, 108, 110, 160, 162, 165, 166, 200, 280, 285, 303, 351, 380, 415, 416, 440, 475, 480, 490, 515, 516, 516a.
Air-conditioning store-type units, 380, 440, 480.
Air-conditioning system components, 106, 107, 200, 285, 351, 380, 440, 475, 480, 506.
Air-conditioning units, 106, 107, 160, 161, 162, 163, 164, 165, 200, 280, 285, 303, 350, 380, 415, 440, 475, 480, 490, 515, 516, 516a.
Air-conditioning units, aircraft, 280, 285.
Air-conditioning units, marine, 190, 191.
Air-conditioning units, vehicular, 380.
Air-conditioning window-type units, 102, 106, 107, 108, 200, 280, 285, 300, 380, 415, 416, 440, 480, 490, 514, 516, 516a.
Air filters, aircraft, 160, 161, 162, 163, 285, 475.
Air filters, engine, 160, 161, 162, 200, 380, 440, 475, 480.
Air ground operating console, 160, 160a, 162.
Air hose, 175, 190, 191, 200, 254, 280, 380, 475, 480.
Air purification equipment, 285, 380, 450.
Air brushes, artists', 280, 380, 440, 480, 506.
Aircraft accessories and components, miscellaneous, 160, 161, 162, 285, 380.
Aircraft accumulators, 285.
Aircraft actuators, hydraulic, 285.
Aircraft arresting and barrier equipment, 160, 161, 162.
Aircraft electrical system components, 160, 162, 285.
Aircraft, fixed wing, 102a, 110, 480, 513, 516, 518.
Aircraft floats, 102, 513, 516.
Aircraft gyroscopes, 160, 160a, 162, 515.
Aircraft hardware, 280, 285, 380.
Aircraft hydraulic actuators, 285.
Aircraft instruments, 106, 160, 160a, 162, 285, 380.
Aircraft landing systems, 160, 161, 162, 380.
Aircraft, lighter-than-air, 280.
Aircraft maintenance, engine checks and repairs, 102, 107, 160, 162, 165, 285, 380, 480, 517, 518.
Aircraft maintenance specialized tools, 160, 161, 162, 163, 285.
Aircraft receivers, (radio), 110, 160, 162, 163, 380, 513, 516.
Aircraft rental and storage, 102, 160, 162, 285, 380, 440, 480, 513, 514.
Aircraft, rotary wing, 280, 480.
Aircraft skis, 516.
Aircraft-type intercommunication systems, 280.
Airframe Structural components, 102, 107, 285.
Alarm and signal sounding devices, 200, 285, 380, 440, 475, 480, 506.
Alarm and signal systems, aircraft, 160, 160a, 162, 285, 480.
Alarm systems, burglar, 200, 280, 380, 440, 475.
Alarm systems, police, 200, 380, 475, 480.
Alarms, fire, 200, 380, 440, 475, 480, 506.
Alarms, gas, 380.
Albumen, egg, 450.
Alcohol, 106, 200, 380, 440, 450, 475, 480, 521.
Alcohol, anti-freeze, 200, 280, 285, 380, 440, 480.
Alcoholic beverages, 502, 506.
Alidades, 380, 440, 517.
Aligners, wheel, motor vehicle, 160a, 175, 200, 280, 380, 475, 490, 506.
Alloys, master, 515.
Altar cloths, 506.
Altars, 506.
Alternators, motors, 160, 160a, 162, 200, 285, 380, 475, 480.
Altimeter setting indicators, 106, 160, 160a, 162, 165, 285, 475.
Altimeters (flight instrument), 160, 160a, 162, 163, 285, 480.
Altimeters, surveying, 145, 200, 380, 440, 475, 517, 518.
Altitude gyro indicators, 160, 160a, 162, 285.
Aluminum and aluminum alloys, 165, 200, 285, 380, 414, 450, 480, 517, 520.

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

Aluminum litho plates, 145, 440, 450, 517.
 Aluminum, strip, 200, 380, 440, 490.
 Aluminum Sulphate, 475.
 Ambulances, 200, 380, 440, 475.
 Ammeters, 160, 160a, 162, 165, 190, 191, 200, 285, 380, 440, 475, 485, 506, 517, 518.
 Ammonium hydroxide, 380, 440, 450, 502.
 Ammunition components, through 15.2 mm. (cal. .60), 285, 349.
 Ammunition, miscellaneous, 200, 279, 280, 285, 380, 440, 480, 490.
 Ammunition, through 15.2 mm. (cal. .60), 200, 251, 280, 285, 380.
 Amplifiers, audio, 160, 160a, 162, 163, 165, 200, 285, 305, 380, 475, 480, 520.
 Amplifiers, direct current, 160, 160a, 162, 163, 200, 285.
 Amplifiers, radio, 165, 279, 285, 380, 480.
 Amplifiers, radio frequency, 160, 160a, 162, 163, 200, 285, 305, 520.
 Amplifiers, synchro, gyrocompass, 280, 285.
 Amplitude and phase control equipment, 160, 160a, 162, 163, 285, 480, 485.
 Analog data acquisition systems, 285.
 Analog data analysis systems, 285.
 Analog data conversion systems, 285.
 Analog data reduction systems, 285.
 Analyzers, gas, 285, 380, 475, 480, 515, 517, 520, 521.
 Analyzers, sound, 160, 160a, 161, 162, 163, 164, 285, 520.
 Anchors, marine, 190, 191, 252, 475.
 Anchors, piping, 380, 440, 480.
 Anemometers, 440, 520.
 Anesthesia apparatus, 200, 253, 380, 416, 440, 475, 480, 502.
 Angledozers, 102, 102a, 104, 175, 200, 380, 440, 480, 506, 513, 516.
 Angles, nonferrous base metal, 200, 475, 480, 520.
 Anhydriators, 380, 480.
 Animal furnishings, 380, 411a, 475, 506.
 Animals, live not raised for food, 380, 412, 413, 440, 506.
 Annunciators, 285, 480.
 Anodes, graphite, 190, 191, 475.
 Anodes, nickel and copper, 350, 450, 475.
 Anodizing equipment, 285, 380.
 Antennas and related equipment, 160, 161, 162, 163, 164, 165, 200, 253, 279, 285, 305, 380, 475, 480, 485, 506, 520.
 Antifreeze compounds, 200, 380, 440.
 Anti-intrusion alarm systems, 280, 380, 440, 475, 480.
 Anti-seizing compounds, 380, 480.
 Apparel, children's and infant's, 200, 440.
 Apparel, safety, personal, 102, 200, 280, 285, 350, 380, 440, 475, 480, 506, 508.
 Appliance cords, 380, 440, 475, 480, 506.
 Appraisal Services, 102, 160, 166, 175, 252, 349, 440, 458, 490, 500, 511, 512, 513, 514, 516.
 Aprons, leather, 440.
 Aprons, oilskin, 440.
 Aprons, rubber, 440.
 Arch supports, 440, 503a, 506.

Architectural and engineering services, 102, 104, 110, 160, 161, 162, 163, 164, 175, 200, 285, 303, 305, 380, 440, 480, 485, 508, 513, 514, 516a, 518, 519.
 Architectural and related metal products, 200, 285, 380, 480, 506, 512, 518.
 Arresters, lightning, 160, 161, 162, 163, 164, 200, 380, 475, 480, 506, 511, 518, 519.
 Art goods, stamped, for embroidery and art needlework, 414, 506.
 Art supplies, 145, 200, 280, 285, 305, 380, 440, 450, 480, 506.
 Artificial eyes, 200, 506.
 Artificial limbs, 200, 416, 500.
 Artists' accessories, 145, 200, 285, 380, 440, 450, 480, 502, 506.
 Artists' airbrushes, 280, 285, 380, 440, 480, 506.
 Asbestos, 200, 285, 380, 518.
 Asbestos fabricated materials, 200, 285, 380, 414, 475, 480, 506.
 Ash trays, 280, 380, 440, 502, 503a, 506.
 Asphalt, 175, 200, 303, 380, 440, 450, 475, 480, 506, 514.
 Asphalt distributors, 102a, 175, 380, 440.
 Asphalt elevators, 475.
 Asphalt heaters, 175, 380, 475, 480.
 Asphalt Kettles, 175, 380, 475, 480.
 Asphalt transfers, 380, 475.
 Assay laboratory equipment and supplies, 380.
 Astrolabes, 410, 413.
 Athletic clothing, 192, 200, 253, 440, 475, 502, 506.
 Athletic footwear, 192, 200, 413, 414, 440, 475, 502, 506.
 Athletic and sporting goods, 192, 200, 253, 413, 440, 475, 506.
 Atlases, 192, 200, 252, 380, 440, 475, 485.
 Atomic energy ammunition, 380.
 Attenuators, resistive, 160, 161, 162, 163, 164, 285, 380, 485.
 Audio oscillators, 145, 160, 161, 162, 163, 164, 285, 485, 517.
 Autoclaves, 285, 521.
 Automotive electric lighting fixtures, 200, 285, 380, 440, 475, 480, 490, 518.
 Automotive lifts, 200, 285, 380, 440, 475, 480.
 Automotive maintenance specialized tools, 175, 200, 280, 285, 380, 440, 475, 480, 490, 518.
 Awnings, 166, 200, 285, 380, 414, 506.
 Axes, except fire, 102, 200, 380, 413, 440, 480.
 Axes, fire, 102, 200, 280, 380, 440, 475, 480, 506.
 Axle components, vehicular, 200, 380, 475, 480.
 Azimuths, 285, 485.
 Bacteriological culture media, 106, 200, 285, 380, 480, 521.
 Badges, 200, 251, 279, 280, 285, 380, 414, 440, 480, 490, 502.
 Bags, burlap, cotton, jute, paper, 108, 200, 380, 440, 480.
 Bags, duffel, 380.
 Bags, glassine, 108, 380, 440, 475.
 Bags, mail carriers, 440.
 Bags (packaging material), 280, 380, 440, 450, 475, 480, 490.
 Bags, paper, 200, 285, 300, 380, 440, 475, 503a.

Bags, sand, 200, 380.
 Bags, sleeping, 380, 440.
 Bakers, field (ovens), 102.
 Bakers, mobile (ovens), 102.
 Balances, 103, 104, 106, 107, 108, 109, 285, 380, 440, 475, 502, 515, 521.
 Balances, Household, 502.
 Balances, industrial, 285, 380, 475, 502.
 Balances, laboratory, 103, 104, 106, 107, 108, 109, 110, 200, 252, 285, 380, 411, 412, 413, 416, 440, 450, 480, 502, 515, 516, 516a, 517, 520, 521.
 Balances, postal, 102, 103, 104, 380, 440, 450, 475, 480, 490.
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*Mandatory for purchase by United States agencies from Federal Prison Industries or Blind Made Products. When not available from these, purchase is made on the open market.

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*Mandatory for purchase by United States agencies from Federal Prison Industries or Blind Made Products. When not available from these, purchase is made on the open market.

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*Mandatory for purchase by United States agencies from Federal Prison Industries for Blind Made Products. When not available from these, purchase is made on the open market.

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*Mandatory for purchase by United States agencies from Federal Prison Industries for Blind Made Products. When not available from these, purchase is made on the open market.

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*Mandatory for purchase by U.S. agencies from Federal Prison Industries or Blind Made Products. When not available from these, purchase is made on the open market.

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*Printing and binding services are not purchased by Government procurement offices except on waiver issued by the Government Printing Office.

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 Tacan equipment and systems, 160, 160a, 162.

Tachometers, 165, 285, 380, 475, 480, 506.

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Tackle blocks, 191, 380, 440, 475, 480, 506.

Tacks, 253, 254, 380, 440, 475, 480, 502, 506.

Tags, shipping, 280, 285, 380, 440, 450, 480, 490, 506.

Tank, pressure, enclosures, 285, 380, 506.

Tank, stock watering, 513.

Tank vacuum, enclosures, 285, 380, 506.

Tanks, fuel (steel), 160, 161, 162, 163, 380, 518.

Tanks, fuel, vehicular, 380, 440.

Tanks, oil storage, 303, 380.

Tanks, septic, 303, 480, 506.

Tanks, storage, assembled, 160, 161, 162, 163, 285, 380, 480, 506, 518.

Tanks, storage, unassembled, 380, 506.

Tanks, waterstorage, 200, 253, 303, 380, 440, 480, 506.

Tape dispensers, 200, 285, 380, 440, 506.

Tape, friction, 153, 161, 162, 163, 190, 191, 285, 380, 440, 475, 502, 506.

Tape, gummed-paper, 145, 280, 285, 350, 380, 440, 450, 490, 506.

Tape, masking, 285, 380, 440.

Tape, plastic, insulation, 285, 440.

Tape, pressure sensitive (all types), 165, 285, 350, 416, 440, 450.

Tape, recording, instrumentation, magnetic, oxide, coated, 150, 285, 440.

Tape, sound recording magnetic oxide coated, 285, 300, 305, 440.

Tape, teletypewriter, 285, 305, 440, 475.

Tape, measuring, all types, 285, 380, 440, 490.

Tapes, precision, 145, 285, 380, 440, 450, 475.

Tapes, surveyors', 145, 161, 162, 163, 200, 440, 475, 480.

Tapes, metalworking, 254, 285, 380, 440, 475.

Tape, (shoe findings), 253, 254.

Tar, 440.

Tar paper, 190, 191, 253, 380, 440, 475, 506.

*Tarpaulins, 200, 285, 380, 440.

Taximeters, 380.

Technical books and pamphlets, 145, 165, 200, 253, 254, 280, 285, 300, 305, 380, 410, 411, 413, 414, 440, 475, 480, 485, 503, 512, 515, 516, 518, 520, 521.

Technical writing, 210, 285, 380, 440.

Tees, nonferrous base metal, 285, 380, 440, 480, 506.

Teeth, 200, 253, 506.

Telegraph equipment, 300, 380.

Telemetering equipment, 145, 165, 190, 285, 380, 480, 511, 518, 519, 520.

Telephone equipment, 165, 200, 285, 380, 414, 440, 450, 475, 480, 511.

Telephone test sets, 380, 475, 480.

Teletype equipment, 160, 162, 165, 252, 280, 285, 300, 305, 380, 440, 450, 475, 480, 485.

Teletype news ticker service, 440.

Teletype receiving keyers, duplex, 160, 162.

Teletypewriter ribbons, 165, 285, 380, 440, 475, 485.

Television communication equipment, 160, 164, 165, 200, 252, 285, 303, 380, 485.

Television sets, home-type, 200, 414, 440.

Temperature controlling instruments, 160, 161, 162, 163, 165, 285, 303, 380, 440, 450, 475, 480, 506, 515, 520.

Temperature measuring instruments, 161, 162, 163, 165, 200, 285, 380, 440, 475, 480, 506, 515, 520, 521.

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Tenoners, 254, 475.

Tent materials, 145, 380, 480, 513.

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*Tents, 380, 440.

Terminal strips (electrical), 161, 162, 163, 285, 380, 475, 480.

Terminal studs (electrical), 161, 162, 163, 285, 380, 475, 480.

Terminals (electrical), 161, 285, 380, 475, 480.

Terra cotta, architectural, 102, 200, 253, 413, 475.

Test clips, 285, 380, 475, 480.

Test sets, cable, 380, 413, 414, 475, 480.

Test sets, communications, 160, 161, 162, 163, 164, 279, 285, 380, 475, 480, 506.

Test sets, radar, 160, 161, 162, 163, 164, 285, 380.

Test sets, radio, 145, 160, 161, 162, 163, 164, 165, 200, 279, 280, 285, 380, 475, 480, 502, 506, 513.

Test sets, telephone, 380, 475, 480.

Test sets, vacuum tube, 145, 160, 161, 162, 163, 164, 165, 285, 380, 475, 480, 506.

Testers, hardness, 106, 285, 351, 380, 480, 515.

Testing equipment, physical properties, 106, 200, 285, 380, 480.

Textile fabrics, 200, 254, 350, 351, 380, 414, 440, 450, 475, 502, 506.

Textile fabrics, rubber-coated, 200, 285, 350, 582.

Textile industries machinery, 254.

Theatre furniture, 200, 502, 506, 507.

Theodolites, 145, 165, 175, 285, 521.

Therapeutic compounds, 253, 380, 503.

Therapeutic equipment, miscellaneous, 253, 380, 416, 506.

Therapeutic supplies, miscellaneous, 253, 380, 416.

Thermal driers, 285, 380, 480, 502.

Thermal protective systems, 285.

Thermistors, 165, 285, 380, 480.

Thermocouples, 285.

Thermocouple leads, 165, 285, 380, 475, 480.

Thermometers, except clinical and engine, 145, 165, 200, 285, 380, 440, 480, 503.

Thermometers, clinical, 200, 253, 411, 440, 475, 502, 506.

Thermometers, engine, 200, 380, 506.

Thermostats, cooling system, internal combustion engine, 285, 380, 475, 506.

Thermostats, temperature control, 110, 160, 161, 162, 163, 285, 480, 506.

Thinners, 440.

Thread, textile fiber, 254, 350, 440, 490.

Tile asphalt, 102, 166, 200, 253, 380, 413, 414, 440, 450, 475, 480, 506.

Tile, building, 102, 200, 253, 303, 380, 413, 440, 450, 480, 506.

Tile, ceramic, 102, 200, 253, 380, 413, 480, 506.

Tile, drain, 102, 200, 253, 380, 413, 440, 480, 506.

Tile, roofing, 102, 180, 200, 253, 303, 440, 506.

Tile, rubber, 102, 200, 253, 440, 450, 475, 506.

Tile, wall and floor, 200, 303, 440, 475.

Time measuring instruments, 145, 160, 161, 162, 163, 165, 200, 285, 380, 413, 440, 475, 480, 506.

Time recording devices, 160, 161, 162, 163, 285, 380, 413, 440, 475, 502.

Time stamping devices, 160, 161, 162, 163, 285, 380, 440.

Timers and flashers, electric (for buoys and lighthouses), 160, 162, 475.

Tire chains, 440.

Tire rebuilding materials, 175, 440, 475.

Tire repair cold patches, 200, 254, 280, 380, 440, 475, 506.

Tire repair kits, 380, 440.

Tire repair materials, 175, 200, 253, 254, 380, 475, 506.

Tire repair padding stock, 175, 254.

Tires, pneumatic, aircraft, 440.

Tires, pneumatic, except aircraft, 160, 161, 162, 163, 200, 380, 440, 450, 475.

Tires, recapping and repairing, 200, 380, 440, 475.

Tires, solid, 200, 440, 450, 475, 480.

Tissues, facial, 253, 380, 440, 475, 502, 503a.

Toasters, 200, 252, 253, 380, 413, 440, 502, 503a.

Tobacco products, 200, 253, 440, 475, 503a, 506.

Toilet paper, 161, 163, 200, 285, 380, 440, 475, 506.

Toilet powders, 200, 380, 440.

Toilet preparations, 200, 440, 503, 503a, 506.

Toilet soap, 200, 380, 440, 450, 503a, 506.

Toilet waters, 503a.

Toiletry articles, personal, 200, 440, 502, 503, 503a, 506.

Toiletry paper products, 200, 380, 440, 502, 506.

Tongue depressors, 200, 380, 411, 440, 502.

Tool boxes, 160, 285, 380, 440.

Tool kits, hand, 102, 161, 162, 163, 175, 200, 253, 254, 285, 380, 440, 475, 480, 506.

Tool outfits, hand, 161, 162, 163, 175, 200, 285, 380, 440, 480, 502, 506.

Tool sets, hand, 161, 162, 163, 175, 200, 285, 380, 440, 475, 480, 506.

Tool, splicing, 160, 161, 162, 475.

Tools, craftsmen's measuring, 145, 380, 440, 475, 480, 506, 518.

Tools, cutting and forming (for metalworking machinery), 165, 200, 254, 285, 351, 380, 440, 450, 475, 480, 490, 502, 506, 517.

Tools, drafting, 145, 160, 161, 162, 163, 200, 285, 440, 450, 480, 506, 507, 515.

Tools, foundry, hand, specialized, 254, 380, 440, 475.

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Tools, gardening, 200, 253, 380, 440, 475, 506.

Tools, hand edged, nonpowered, 161, 162, 163, 175, 200, 253, 254, 285, 308, 380, 440, 480, 506.

Tools, hand, nonedged, nonpowered, 161, 162, 163, 175, 200, 253, 254, 285, 380, 440, 475, 480, 506.

Tools, hand, power-driven, 102, 161, 162, 163, 175, 200, 253, 254, 285, 351, 380, 440, 450, 475, 480, 506.

Tools, hand, specialized, 161, 162, 163, 175, 200, 253, 254, 285, 380, 440, 480, 506.

Tools, machine, portable, 161, 162, 163, 175, 200, 253, 254, 285, 350, 380, 440, 480, 502, 506, 515.

Tools, specialized, aircraft maintenance, 160, 161, 162, 163, 285.

Tools, specialized, automotive maintenance, 175, 200, 280, 380, 440, 475, 480, 490, 518.

Tools, specialized, communication, hand, 161, 162, 163, 285, 380, 506.

Tools, specialized, jewelers', hand, 145, 440.

Tools, specialized, machinery maintenance, 175, 285, 380, 440, 475, 502, 506.

Toothbrushes, 200, 440, 502, 503a.

Toothpaste, 200, 440, 502, 503a.

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Torpedos, railroad, 440.

Towboats, 475, 480.

Towel dispensers, 200, 380, 440, 475.

Towel racks, 380, 440, 475, 480, 506.

Towels, 200, 380, 440, 475, 502, 503a.

Tower lighting kit, 160, 162.

Towers, steel, 102, 102a, 160, 161, 162, 163, 165, 285, 305, 380, 511, 518, 519.

Towline, 285, 506.

Track components, vehicular, 380, 440.

Track materials, railroad, except ballast and ties, 380, 475.

Tracklaying tractors, 102a, 175, 380, 440, 480, 506, 513, 516, 518.

Tracklaying treads, rubber, 506.

Tractor, specialized attachments, 380, 440.

Tractor, specialized attachments for earth moving and excavating, 102, 165, 175, 200, 380, 440, 506, 513, 515, 516.

Tractors, crawler, 102a, 106, 175, 200, 440, 475, 511, 513, 514.

Tractors, farm, 103, 104, 106, 200, 253, 380, 440, 480, 514, 516.

Tractors, garden, walking-type, 106, 200, 253, 440, 475, 490, 506.

Tractors, high-speed, 380, 440.

Tractors, tracklaying, 102a, 175, 380, 440, 480, 506, 513, 516, 518.

Tractors, warehouse, 200, 380, 440, 475, 480, 490.

Tractors, wheeled, 102, 102a, 175, 200, 440, 480, 502, 506, 511, 514, 516.

Traffic and transit signal systems, except railroad, 200, 380, 475.

Trailers, cargo, 102, 102a, 200, 285, 380, 440, 475, 480, 490, 516.

Trailers, except house trailers, 102, 102a, 104, 145, 175, 200, 380, 440, 475.

Trailers, house, 102, 102a, 106, 175, 200, 280, 285, 380, 440, 455, 511, 513, 514, 517.

Trailers, low-bed, 102a, 175, 200, 380, 440, 480, 513, 514, 516.

Trailers, over 12-ton payload, 102a, 175, 200, 285, 380, 440, 516.

Trailers, passenger, 440, 517.

Trailers, special-construction - type earth and rock hauling, 175, 200, 380, 475.

Trailers, tank (liquid), 175, 380, 440, 480.

Trailers, truck-mounted machine-shop, 175, 440, 480.

Trailers, van, 380, 440, 475.

Trailers, warehouse, 200, 380, 440, 475, 490.

Training aids, 252, 253, 254, 280, 285, 506.

Training devices, 252, 253, 254, 280, 285, 506.

Training film, 279, 285, 380, 475, 480, 490, 506.

Transcribing machines, 160, 161, 162, 280, 380, 416, 440, 450, 475, 485.

Transcription service, recording, 300, 440, 485, 506, 513.

Transducers, 285.

Transfer assemblies, vehicular, 380.

Transfers, asphalt, 380, 475.

Transformers, 106, 110, 145, 160, 160a, 162, 165, 200, 285, 303, 305, 350, 351, 380, 413, 440, 450, 475, 480, 502, 506, 511, 518, 519.

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Transformers, output, 160, 162.

Transformers, power and distribution, 160, 162, 190, 200, 285, 305, 350, 351, 380, 440, 450, 475, 480, 506, 511, 518, 519.

Transistors, 285, 305, 380, 480.

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Transmission assemblies, vehicular, 380.

Transmission line construction, 380, 455, 511, 518, 519.

Transmission line construction (including towers and equipment, substations, etc.), 380, 511, 518, 519.

Transmitters, navigational instrument, 160, 160a, 162.

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Transportation, air, bus and truck, 280, 285, 380.

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Traps, game, rodent, 440.

Traps, piping, except plumbing, 380, 480.

Trays, food and serving, 200, 380, 440, 503a.

Tread rollers, rubber, 175, 450.

Treads, tracklaying, rubber, 506.

Tripods, photographic, 104, 109, 380, 410, 411, 413, 414, 440, 506.

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Troop transport vessels, 190.

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Trucks, crash, 160, 161, 162, 163, 164, 440.

Trucks, fire, 102, 200, 380, 440, 475, 480, 514.

Trucks, fuel servicing, 380, 440, 475.

Trucks, garbage, 200, 380, 440, 475, 506.

Trucks, hand, 200, 253, 254, 285, 350, 351, 380, 416, 440, 450, 475, 480, 490, 502, 503a, 506.

Trucks, industrial, 200, 285, 350, 380, 415, 440, 480.

Trucks, special construction (earth and rock hauling), 102, 104, 175, 200, 350, 380, 440, 475.

Trucks, specialized (X-ray laboratory, medical laboratory, machine shop, dormitory), 175, 416, 440, 450.

Trucks, tank, 175, 380, 440, 475, 480.

Trucks, warehouse, 165, 200, 254, 285, 380, 410, 415, 440, 450, 475, 480, 490.

Trucks, wrecker, 200, 380, 440.

Truck-tractor and trailer combinations, 102a, 175, 200, 380, 440, 490, 514, 516.

Truck-tractors, 175, 200, 380, 440, 475, 514, 516.

Tube fittings, 285, 380, 413, 414, 440, 480.

Tube, iron (rigid), 285, 350, 380, 413, 414, 480.

Tube repair kits, 380, 440, 506.

Tube repair materials, 380, 506.

Tube rounds, 285, 380.

Tube sockets, electrical, 285, 380, 440, 475, 480, 506.

Tube, steel (rigid), 165, 254, 285, 380, 413, 414, 450, 475, 480, 506, 518.

Tube, systems, pneumatic, 380, 450, 506.

Tubes, ballast, resistive, 440, 480, 506.

Tubes, electron, except medical, 145, 160, 162, 165, 200, 270, 280, 285, 305, 380, 440, 450, 475, 480, 506, 518.

Tubes, glass, 285, 380, 440, 450, 502, 506.

Tubes, inner, aircraft, 440.

Tubes, inner, except aircraft, 380, 440.

Tubes, insulating, 380, 440, 475, 506.

Tubes, pilot, 380, 440.

Tubes, radio, 102, 160, 161, 165, 200, 285, 305, 380, 440, 475, 480, 506, 518.

Tubes, rectifying, 160, 161, 162, 200, 285, 305, 380, 475, 480, 506.

Tubes, relief, aircraft, 285.

Tubes, venturi, 285, 380, 480.

Tubes, X-ray, medical, 200, 252, 253, 285, 380, 411, 414, 450, 480, 502, 506.

Tubing, air, flexible, nonmetallic, 102, 253, 254, 380, 480, 506.

Tubing, chemical, flexible, nonmetallic, 102, 285, 380, 480, 502, 506.

Tubing, flexible, metallic, 102, 200, 285, 380, 440, 450, 480, 506, 518.

Tubing, fuel, flexible, nonmetallic, 102, 285, 413, 475, 506.

Tubing, glass, 285, 380, 440, 450, 480, 502, 506.

Tubing, hydraulic, flexible, nonmetallic, 285, 380, 502.

Tubing, nonmetallic, flexible, 165, 200, 285, 380, 413, 440, 480, 506.

Tubing, oil, flexible, nonmetallic, 285, 380, 506.

Tubing, paper, 145, 380, 440.

Tubing, precious metals, 380.

Tubing, water, flexible, nonmetallic, 102, 285, 480, 506.

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Tumblers, drying (commercial laundry), 254, 416, 502, 506.

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Tuning forks, 506.

Turbine components, 285, 413.

Turbines, gas, except aircraft, 380.

Turbines, steam, 285, 380, 480, 506.

Turbines, water, 285, 480.

Turnbuckles, 380, 413, 440, 475, 480, 506.

Turpentine, 380, 440, 475, 502, 506.

Twinax cable, 145, 165.

Twine and cordage, 145, 200, 280, 380, 410, 411, 412, 413, 440, 450, 506.

Twine, cotton and jute, 200, 440, 450, 475, 490, 506.

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Typesetting machinery, 200, 254, 450, 475.

Typewriters, 145, 200, 280, 285, 380, 416, 440, 506, 515.

Typewriters, electric: Maintenance and reconditioning, 280, 285, 305, 380, 440, 475, 485, 506, 515.

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Ultraviolet (actinic) commercial processing units, 380.

Ultraviolet lamp kits, 412.

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Underwater sound equipment, 285.

Underwear, men's, 200, 440, 502.

Underwear, women's, 200, 440.

Uniform shirts, nonmilitary, men's, 200, 380, 440, 480, 516.

Uniforms, nonmilitary, men's, 200, 380, 416, 440, 475, 480, 516.

Uniforms, nonmilitary, women's, 200, 351, 414, 416, 440, 480.

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Upholstery fabrics, 254, 303, 506.

Upholstery leather, 254, 502, 506.

Urns, burial, 475, 506.

Utensils, kitchen, 102, 163, 200, 252, 253, 303, 380, 414, 440, 475, 502, 503a, 506.

Vacuum bottles, 285, 380, 413, 414, 440, 480, 502.

Vacuum cleaners, domestic, 200, 303, 440, 450, 475.

Vacuum cleaners, industrial, 200, 380, 414, 440, 480, 490.

Vacuum filters, 285, 380, 480.

Vacuum jugs, 285, 413, 502.

Vacuum pumps, except aircraft, 102, 106, 165, 200, 285, 380, 480, 506, 520.

Vacuum tank enclosures, 285, 380, 506.

Vacuum tube test sets, 145, 160, 162, 165, 285, 380, 475, 480.

Valve cocks, 285, 380, 440, 475, 480.

Valve cores, inner tube, 380, 440, 506.

Valve springs, engine, 380.

Valves, air radiator, 440.

Valves, angle, 285, 380, 440, 450, 475, 480, 506.

Valves, automatic, non-powered, 285, 380, 413, 414, 480, 506.

Valves, check, 200, 285, 380, 440, 450, 475, 480, 506, 511.

Valves, engine, 380, 413, 440, 450, 506.

Valves, external pilot-operated, 285, 380, 413, 475, 480, 506.

Valves, flush, plumbing, 380, 440, 450, 473, 480, 506.

Valves, gate, 200, 285, 380, 440, 450, 475, 480, 506, 511.

Valves, globe, 200, 285, 380, 440, 450, 475, 480, 506, 511.

Valves, hydraulic-operated, 285, 380, 475, 480.

Valves, inner tube, 380, 440, 475, 506.

Valves, instrument-operated, 285, 380, 413, 414, 480, 506.

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Valves, non-powered, 285, 380, 413, 480, 506.

Valves, powered, 285, 380, 413, 475, 480, 506, 511.

Valves, relief, 106, 110, 285, 380, 440, 450, 475, 480, 506.

Valves, solenoid-operated, 285, 380, 450, 475, 480, 506, 511.

Valves, stop, plumbing, 380, 440, 475.

Variety machines, 145, 280, 380, 440, 450.

Varnished cambric, insulating, 380, 475, 480.

Varnishes, 102, 106, 161, 162, 163, 200, 253, 254, 285, 303, 380, 440, 450, 475, 480.

Varnishes, lithographic, 350, 450.

Vegetable fibers, except brush fibers, 254.

Vehicles, over-snow traveling, 103, 104, 514.

Vehicles, special purpose, 285, 305.

Vehicular accessories, 175, 200, 380, 440, 450, 475, 480.

Vending machines, 200, 475, 490, 503a.

Veneer, 102, 200, 253, 254, 440.

Veneer lathes, 254.

Veneered panels, 102, 253, 254, 440, 506.

Venetian blind hardware, 200, 440, 450, 475, 506.

Venetian blinds, 200, 303, 380, 414, 440, 450, 475, 480, 490.

Ventilating, heating, and air conditioning equipment, 102, 110, 160, 161, 162, 163, 285, 303, 350, 351, 380, 440, 475, 480, 506, 519.

Ventilators, ship, 274.

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Veterinary equipment, 106, 110, 440, 475.

Veterinary instruments, 106, 110, 440, 475.

Veterinary services, 200.

Veterinary supplies, 106, 110, 440, 475.

Veterinary X-ray equipment, 440.

Vibrators, concrete, 102, 104, 175, 285, 380, 475, 480.

Vibrators, electrical, 285.

Viewers, photographic, 109, 145, 285, 380, 410, 413, 416, 475, 485, 503a, 506.

Vinyl, plastic, 104, 145, 285, 450, 502, 517.

Vises and clamps, 285, 440, 475.

Visible light communication equipment, 160, 160a, 285, 380.

Visible record equipment, 145, 280, 380, 440, 480, 506, 515.

Voltmeters, 145, 160, 161, 162, 163, 165, 285, 380, 413, 440, 475, 480, 518, 520.

Vulcanizing machinery, rubber, 506.

Vulcanizing patches, 253, 254, 380, 440, 506.

Wadding, cotton, 200, 254, 285, 440, 502, 506.

Wagons, 102, 285.

Wagons, farm, 440.

Wall fillers, 380, 440.

Wallboard, 102, 145, 161, 162, 163, 200, 253, 285, 303, 380, 440, 450, 475, 480, 506.

Warehouse cranes, 285, 380, 440, 480.

Warehouse tractors, 200, 285, 380, 440, 475, 480, 490.

Warehouse trailers, 285, 380, 440, 475, 490.

Warehouse trucks, 165, 200, 254, 380, 410, 415, 440, 450, 475, 480, 490.

Warehousing service, 440.

Warm air furnaces, 303, 380, 506.

Warming equipment, food, 200, 252, 253, 380, 416, 502, 503a.

Washers (hardware), 200, 253, 254, 285, 380, 440, 480, 506.

Washers, bottle, 106, 200, 285, 380, 502.

Washers, commercial laundry, 200, 253, 254, 414, 416, 502, 506.

Washers, home laundry, 200, 440, 475.

Washers, photographic, 102, 109, 165, 285, 380, 410, 413, 440, 506.

Washing compounds, 200, 252, 253, 254, 285, 380, 440, 480, 506.

Waste, cotton, 285, 440, 475.

*Wastepaper receptacles, 280, 285, 380, 440, 503a, 506.

Watch movements, 165, 480.

Watches, 145, 165, 380, 480, 503a, 517.

Water columns, 380.

Water coolers, 200, 380, 440, 475.

Water distillation equipment, 106, 165, 285, 380, 480, 521.

Water gates, 513.

Water heaters, domestic, 200, 380, 440, 455, 475, 480, 506.

Water-purification equipment, 285, 380, 475, 480, 506, 521.

Water-purifying compounds, 285, 380, 475, 480, 506, 521.

Water-resistant compounds, 285, 303, 380, 440, 480, 503, 506.

Water-softening compounds, 380, 416, 440, 480, 503, 506.

Water supply systems, automatic, 440.

Water turbines, 480.

Watometers, 165, 285, 380, 411, 413, 475, 480, 485, 506, 518, 520.

Waveguides and related equipment, 160, 165, 285, 380.

Waxes, non-petroleum, 200, 285, 380, 440.

Waxes, petroleum, 285, 380, 440, 480.

Weatherstripping, 303, 380, 475.

Weather-resistant compounds, 285, 380, 480, 506, 513.

Webbing, 440.

Weed killers, 102, 106, 253, 380, 440, 480, 506, 513, 516, 518.

Weeders, 480.

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Weighing services, 440.
 Welders, engine-driven, 102a, 285, 380, 475.
 *Welders' gloves, 200, 285, 380, 440, 450, 475, 480, 506.
 Welders' helmets, 200, 254, 285, 380, 440, 450, 475, 480, 506.
 Welding electrodes, 175, 253, 254, 285, 380, 440, 450, 475, 480, 502, 506.
 Welding equipment, 106, 175, 200, 253, 254, 285, 380, 413, 414, 440, 450, 475, 480, 490, 502, 506, 520.
 Welding rods, 175, 200, 253, 254, 285, 380, 414, 440, 450, 475, 480, 502, 506.
 Welding supplies, 106, 175, 200, 253, 254, 285, 380, 440, 450, 475, 480.
 Well drilling, 380, 512, 513, 514, 517.
 Well drilling equipment, 440.
 Wheel aligners, motor vehicle, 175, 200, 280, 380, 475, 490, 506.
 Wheel chairs, 200, 253, 416, 440, 475, 502, 506.
 Wheelbarrows, 380, 440, 475, 506.
 *Whiskbrooms, 200, 380, 440, 480.
 Whistles, air and steam, 380.
 Winches, 145, 175, 380, 440, 475, 480.
 Wind engines, 413, 513.
 Wind equipment support, 165, 285.
 Windcone socks, 160, 161, 162, 163, 285.
 Windlasses, 440, 475, 480.
 Windmill, complete, 440, 513.
 Window frames, wood, 102, 380, 440, 506.
 Window glass, 200, 285, 303, 380, 440, 450, 475, 480, 506.
 Window sash, metal, 102, 107, 253, 380, 440, 475, 480, 506.
 Window sash, wood, 102, 107, 253, 285, 380, 440, 506.
 Window shade hardware, 200, 285, 380, 440, 506.
 Windshield wipers, vehicular, 200, 380, 440, 475, 515.

*Mandatory for purchases by United States agencies from Federal Prison Industries for Blind Made Products. When not available from these, purchase is made on the open market.

Wine, 502.
 Wiping cloths, 145, 280, 285, 351, 380, 440, 475, 480, 490.
 Wiping cloths service, 200, 254, 280, 440, 450, 480, 485, 506, 514, 515.
 Wire, antenna, 160, 161, 162, 163, 165, 253, 285, 380, 475, 480, 506.
 Wire, barbed, 380, 440, 475.
 Wire, bare copper, 160, 161, 162, 163, 285, 380, 480, 518.
 Wire brush wheels, 285, 380, 440, 475, 480.
 Wire chain, 380, 475, 480.
 Wire cloth, 160, 161, 162, 163, 285, 380, 440, 475, 480.
 Wire, electrical, insulated, 145, 160, 161, 162, 163, 165, 200, 285, 305, 380, 440, 450, 475, 480, 490, 506, 511, 515, 518, 519.
 Wire, electrical, non-insulated, 160, 161, 162, 163, 165, 200, 285, 305, 380, 475, 480, 506, 511, 518, 519.
 Wire, electronic, 165, 285, 305, 380, 440, 475, 480, 506, 514, 518.
 Wire, enamel, 160, 161, 162, 163.
 Wire forming machines, 380.
 Wire, fuse, 285, 380, 475, 480, 506.
 Wire, iron, nonelectrical, 190, 191, 285, 380, 440, 475, 480, 506.
 Wire, magnet, 200, 285, 380, 450, 475, 480.
 Wire, nonferrous base metal, nonelectrical, 200, 285, 350, 380, 440, 475, 480, 490.
 Wire, resistance, 285, 380, 475, 480, 506.
 Wire rope, 145, 175, 190, 191, 200, 285, 380, 440, 475, 480, 506, 514, 516, 518.
 Wire springs, 254, 285, 380, 450, 475, 480, 506.
 Wire steel, 160, 161, 162, 163, 285, 380.
 Wire steel, nonelectrical, 200, 254, 285, 380, 440, 475, 480, 490, 506, 519.
 Wire, thermocouple, 285.
 Wiring devices and panelboards, 160, 162, 200, 285, 304, 305, 349, 350, 380, 450, 475, 480, 511, 518, 519.
 Wood blocks (currency packing), 350.
 Wood fillers, 102, 106, 254, 380, 440, 480, 506.
 Wood materials, basic, 102, 253, 254, 285, 380, 450, 480.
 Wood piling, 380, 480.
 Wood preservatives, 285, 380, 440, 475, 480, 506.
 Wood products, 200, 285, 380.
 Woodworking machines, 165, 200, 253, 254, 285, 303, 350, 380, 440, 450, 475, 490, 502, 506, 514, 520.
 Wool fibers, 254.
 Wool suiting, 440.
 Work benches, 165, 285, 380, 440, 475, 480, 490.
 Work clothing, 200, 285, 380, 480, 502, 503a.
 Work tables, kitchen, 163, 200, 252, 253, 413, 414, 440, 502, 503a, 506.
 Wrapping machinery, 350, 450.
 Wrapping materials, 285, 350, 351, 410, 411, 412, 413, 440, 450, 490, 506.
 Wrecking bars, 285, 380, 440, 480, 506.
 Wringers, commercial laundry, 200, 253, 380, 506.
 Wristpins, engine, 380.
 Writing, script, 285, 305.
 X-ray equipment, dental, 200, 252, 411, 416, 440, 502.
 X-ray equipment, medical, 106, 200, 252, 253, 285, 380, 411, 416, 440, 450, 480, 502.
 X-ray equipment, veterinary, 106, 440.
 X-ray film, medical, 200, 285, 380, 411, 416, 480, 502.
 X-ray machines, industrial, 200, 285, 380, 480, 517.
 X-ray supplies, dental, 200, 252, 253, 411, 416, 440, 502.
 X-ray supplies, medical, 200, 252, 253, 285, 380, 411, 414, 416, 440, 475, 480, 502.
 X-ray tubes, medical, 200, 252, 253, 380, 411, 414, 450, 480, 502, 506.
 Yarn, 200, 254, 440, 502.
 Zener Devices, 285.
 Zinc, ribbon, 490.

MAJOR FEDERAL CIVILIAN PURCHASING OFFICES

101. Contract and Procurement Management Division, Office of Plant and Operations, U.S. Department of Agriculture, Room 132-W, Administration Building, Washington, D.C. 20250.
102. Contact one or more of the Forest Service regional offices listed below. Address as: Regional Office, Forest Service, U.S. Department of Agriculture—

Albuquerque,	Milwaukee, Wis. 53203
N. Mex. 87101	Ogden, Utah 84403
Atlanta, Ga. 30323	Portland, Oreg. 97208
Denver, Colo. 80225	San Francisco, Calif.
Juneau, Alaska 99801	94111
Missoula, Mont. 59801	
- 102a. Chief, Branch of Procurement Management, Forest Service, U.S. Department of Agriculture, Washington, D.C. 20250.
103. Administrative Services Division, Soil Conservation Service, U.S. Department of Agriculture, Washington, D.C. 20250.
104. Write to Administrative Services Division, Soil Conservation Service, U.S. Department of Agriculture, Washington, D.C. 20250, for a list of the State and other administrative offices which do purchasing.
106. Contact one or more of the Agriculture Research Service field offices listed below. Address as: Field Administrative Division, Agriculture Research Service, U.S. Department of Agriculture—

701 Loyola Avenue, Federal Office Bldg., New Orleans, La. 70150.
Federal Center Building, Hyattsville, Md. 20782.
400 South 4th Street, Minneapolis, Minn. 55145.
107. Contact one or more of the Forest and Range Experiment Stations listed below. Address as: Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture—

Asheville, N.C. 28802	Ogden, Utah 84403
Berkeley, Calif. 94701	New Orleans, La. 70113
Fort Collins, Colo.	St. Paul, Minn. 55101
80521	Upper Darby, Pa. 19082
Portland, Oreg. 97208	

Also contact:

Forest Products Laboratory, U.S. Forest Service, U.S. Department of Agriculture, Madison, Wis. 53705
Northern Forests Experiment Station, P.O. Box 740, Juneau, Alaska 99801.
Institute of Tropical Forestry, University of Puerto Rico, P.O. Box 577, Rio Piedras, P.R. 00928.
108. Consumer and Marketing Service, U.S. Department of Agriculture, Administrative Services Division, Washington, D.C. 20250.
Field Operations Branch, ASD, 536 South Clark Street, Chicago, Ill. 60605.
109. Agricultural Stabilization and Conservation Service, Administrative Services Division, U.S. Department of Agriculture, Washington, D.C. 20250.
Agricultural Stabilization and Conservation Service, Management Field Office, Administrative Services Division, U.S. Department of Agriculture, Kansas City, Mo. 64141.
110. Agriculture Research Service, Administrative Services Division, U.S. Department of Agriculture, Federal Center Building, Hyattsville, Md. 20781.
145. Procurement Division, Office Administrative Services, U.S. Department of Commerce, Washington, D.C. 20230.
150. Personal Property Management Branch, Bureau of the Census, Federal Office Building No. 4, Suitland, Md. (Mail Address: Washington, D.C. 20233)
160. Procurement Operations Division, Installation and Materiel Service, Federal Aviation Administration, Washington, D.C. 20590.
- 160a. Procurement Division, National Airspace System Program Office, Federal Aviation Administration, Washington, D.C. 20590.
161. Contact one or more of the Federal Aviation Administration offices listed below:
Address as: Airways Facilities Division, Federal Aviation Administration, Jamaica, N.Y., 11430, John F. Kennedy International Airport Federal Building.
Atlanta, Ga. 30320, P.O. Box 20636.
Kansas City, Mo. 64106, 601 E. 12th Street.
Fort Worth, Tex. 76101, P.O. Box 1689.
Los Angeles, Calif. 90009, 5651 West Manchester Avenue, P.O. Box 90007.
162. Procurement Division, Aeronautical Center, 6400 South MacArthur Boulevard, P.O. Box 25082, Oklahoma City, Okla. 73125.
163. Contact either or both of the Federal Aviation Administration offices listed below:
Address as: Airways Facilities Division, Federal Aviation Administration, P.O. Box 4009, Honolulu 96812.
Anchorage, Alaska 99501, 632 Sixth Avenue.
164. Material and Procurement Division, National Aviation Facilities Experimental Center, Federal Aviation Administration, Atlantic City, N.J. 08405.
165. Procurement and Supply Management Branch, Environmental Science Services Administration, U.S. Department of Commerce, 6010 Executive Boulevard, Rockville, Md. 20852.
166. Contact one or more of the U.S. Weather Bureau offices listed below. Address as: U.S. Weather Bureau, Environmental Science Services Administration, U.S. Department of Commerce—

Fort Worth, Tex. 76102, 819 Taylor Street
Garden City, N.Y. 11530, 585 Stewart Avenue
Kansas City, Mo. 64106, 601 E. 12th Street
Salt Lake City, Utah 84111, 125 South State Street
Anchorage, Alaska 99501, 632 6th Avenue
Honolulu, Hawaii 96811, 1149 Bethel Street
175. Procurement Branch Bureau of Public Roads, U.S. Department of Transportation, 1717 "H" Street, N.W., Washington, D.C. 20235.
190. Division of Purchase and Sales, Office of Property and Supply, Maritime Administration, U.S. Department of Commerce, Washington, D.C. 20235.

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

191. Contact one or more of the Maritime Administration field offices listed below: Address as: Maritime Administration, U.S. Department of Commerce—
 701 Loyola Avenue, New Orleans, La. 52948.
 45 Broadway, New York, N.Y. 10006.
 7737 Hampton Boulevard, Norfolk, Va. 23505.
 450 Golden Gate Avenue, San Francisco, Calif. 94102.

200. D.C. Government Procurement Office, Department of General Administration, 499 Pennsylvania Avenue, N.W., Washington, D.C. 20001.

210. Supply Division, Smithsonian Institution, Natural History Building, 10th Street and Constitution Avenue, N.W., Washington, D.C. 20560.

251. Supplies and Printing Section, Department of Justice, Washington, D.C. 20530.

252. Bureau of Prisons, Department of Justice, HOLC Building, Washington, D.C. 20537.

253. Bureau of Prisons (Field), Contact one or more of the Federal Penal and Correctional Institutions listed below:
United States Penitentiaries:
 Atlanta, Ga. 30315
 Leavenworth, Kans. 66048
 Lewisburg, Pa. 17837
 Marion, Ill. 62959
 McNeil Island: Steilacoom, Washington 98388
 Terre Haute, Ind. 47808
Federal Reformatories:
 Alderson, W. Va. 24910
 El Reno, Okla. 73036
 Petersburg, Va. 23804
Federal Correctional Institutions:
 Danbury, Conn. 06813
 La Tuna: Anthony, N. Mex.-Tex. 88021
 Lompoc, Calif. 93436
 Milan, Mich. 48160
 Sandstone, Minn. 55072
 Seagoville, Tex. 75159
 Tallahassee, Fla. 32304
 Terminal Island, Calif. 90731
 Texarkana, Tex. 75502
Youth and Juvenile Institutions:
 Federal Youth Center, Ashland, Ky. 41101
 Federal Youth Center, Englewood, Colo. 80110
 National Training School, Washington, D.C. 20013
Federal Prison Camps:
 Eglin Air Force Base, Fla. 32542
 Montgomery, Ala. 36112: Maxwell Air Force Base
 Stafford, Ariz. 85546
Medical Center for Federal Prisoners:
 Springfield, Mo. 65802
Federal Detention Headquarters:
 New York, N.Y. 10014: 427 West Street
 Florence, Ariz. 85232

254. Federal Prison Industries, Inc., Department of Justice, HOLC Building, Washington, D.C. 20537.

255. Federal Prison Industries (Field), Contact one or more of the field offices located in the Federal Penal and Correctional Institutions listed under 253. Address is Federal Prison Industries, Inc., c/o the particular institution.

279. Property Management Unit, Federal Bureau of Investigation, Department of Justice, Washington, D.C. 20535.

280. Contact one or more of the Immigration and Naturalization Service offices listed below, Address as: Procurement Officer, Immigration and Naturalization Service—
 Property Management and Office Services Branch, 119 "D" Street, N.E., Washington, D.C. 20536.
 Regional Office, Federal Building, Burlington, Vt. 05401
 Regional Office, Federal Building, 400 North 8th Street, Richmond, Va. 23219
 Regional Office, Terminal Island, San Pedro, Calif. 90731
 Regional Office, 790 South Cleveland Avenue, St. Paul, Minn. 55116

285. Contact one or more of the offices listed below. Address as: National Aeronautics and Space Administration—
 Ames Research Center, Moffett Field, Calif. 94035
 Electronics Research Center, Cambridge, Mass. 02139
 Flight Research Center, P.O. Box 273, Edwards, Calif. 93523
 Goddard Space Flight Center, Greenbelt, Md. 20771
 Headquarters Contracts Division (Code DHC), Washington, D.C. 20546
 John F. Kennedy Space Center, NASA, Kennedy Space Center, Fla. 32899
 Langley Research Center, Langley Station, Hampton, Va. 23365
 Lewis Research Center, 21000 Brookpark Road, Cleveland, Ohio 44135
 Manned Spacecraft Center, Houston, Tex. 77058
 Marshall Space Flight Center, Huntsville, Ala. 35812
 NASA Pasadena Office, 4800 Oak Grove Drive, Pasadena, Calif. 91103
 AEC-NASA Space Nuclear Propulsion Office, U.S. Atomic Energy Commission, Washington, D.C. 20545
 Space Nuclear Propulsion Office—Cleveland, Lewis Research Center, 21000 Brookpark Road, Cleveland, Ohio 44135
 Space Nuclear Propulsion Office—Albuquerque, P.O. Box 5400, Albuquerque, N. Mex 87115
 Space Nuclear Propulsion Office—Nevada, P.O. Box 1, Jackass Flats, Nev. 89023
 Wallops Station, Wallops Island, Va. 23337

In addition to the NASA Research and Space Flight Centers, the Jet Propulsion Laboratory (JPL) of the California Institute of Technology is operated under contract with NASA. JPL purchases directly from industry the supplies, materials, and equipment required for their research and development programs. For further information regarding selling to JPL, contact: Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Drive, Pasadena, Calif. 91103

Headquarters Office: National Aeronautics and Space Administration, Washington, D.C. 20546.

300. Procurement Operations Branch, Supply and Transportation Services Division, Department of State, Washington, D.C. 20520.

303. Director of Foreign Buildings Operations, Department of State, Washington, D.C. 20520.

305. United States Information Agency, Contract and Procurement Division, Washington, D.C. 20547.

349. Publications Branch, Facilities Management Division, Internal Revenue Service, Washington, D.C. 20224.

350. Procurement Officer, Bureau of Engraving and Printing, Treasury Department, Washington, D.C. 20226.

351. Contact one or more of the Bureau of the Mint Purchasing Offices listed below. Address as: Purchasing Office, Bureau of the Mint, Treasury Department—

FEDERAL CIVILIAN PURCHASING OFFICES

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Denver, Colo. 80204
 United States Assay Offices, 32 Old Slip, New York, N.Y. 10005
 Philadelphia, Pa. 19105
 San Francisco, Calif. 94102

380. Atomic Energy Commission—

The United States atomic energy program involves an integrated industry. It is made up of plants, laboratories and other facilities which are constructed and operated by private industry under contracts with AEC. The facilities include plants for the production of uranium feed materials, special nuclear materials, and atomic weapons; nuclear reactors; and research laboratories. Most of the purchasing of material, equipment and supplies required for the program is done in the field by AEC contractors through comparatively small individual purchases of standard, semi-standard and off-the-shelf items.

Production run orders are not characteristic of AEC procurement. The items listed may or may not be purchased on a repetitive basis. For further information regarding selling to AEC and its contractors, contact the Purchasing Office of the nearest AEC office listed below:

Albuquerque Operations Office, P.O. Box 5400, Albuquerque, N.Mex. 87115
 Brookhaven Office, Upton, N.Y. 11973
 Chicago Operations Office, 9800 South Cass Avenue, Argonne, Ill. 60439
 Cleveland Space Nuclear Propulsion Office, 21000 Brookpark Road, Cleveland, Ohio 44135
 Grand Junction Office, Grand Junction, Colo. 81502
 Idaho Operations Office, P.O. Box 2108, Idaho Falls, Idaho 83401
 Nevada Operations Office, P.O. Box 1676, Las Vegas, Nev. 89101
 Nevada Space Nuclear Propulsion Office, P.O. Box 1, Jackass Flats, Nev. 89023
 New York Operations Office, 376 Hudson Street, New York, N.Y. 10014
 Oak Ridge Operations Office, P.O. Box E, Oak Ridge, Tenn. 37871
 Pittsburgh Naval Reactors Operations Office, P.O. Box 1105, Pittsburgh, Pa. 15230
 Richland Operations Office, P.O. Box 550, Richland, Wash. 99352
 San Francisco Operations Office, 2111 Bancroft Way, Berkeley, Calif. 94704
 Savannah River Operations Office, P.O. Box A, Aiken, S.C. 29802
 Schenectady Naval Reactors Operations Office, P.O. Box 1069, Schenectady, N.Y. 12301

410. Chief, Procurement Section, Department of Health, Education and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201.
 410a. Contracts Branch, Office of Education, Department of Health, Education and Welfare, Washington, D.C. 20202.
 411. Bureau of Health Services, USPHS, Contracts Staff, 800 North Quincy Street, Arlington, Va. 22202.
 411a. Chief, Supply Management Branch, National Institutes of Health, 9000 Rockville Pike, Bethesda, Md. 20014.
 412. Chief, Supply Management Branch, Food and Drug Administration, Federal Office Building #8, 200 "C" Street, S.W., Washington, D.C. 20204
 413. Howard University, Department of Health, Education and Welfare, Washington, D.C. 20203
 414. Chief, Purchasing Section, Saint Elizabeth's Hospital, Congress Heights, Washington, D.C. 20032.
 415. Chief, Property Management Branch, Office of Administration, Social Security Administration, Westinghouse Bldg, 2415 West Franklin Street, Baltimore, Md. 21223

416. Public Health Service Field Activities as follows:
 USPHS Hospital, Wyman Park Drive and 31st Street, Baltimore, Md. 21211
 USPHS Hospital, 77 Warren Street, Brighton, Boston, Mass. 02135
 USPHS Hospital, St. Gabriel, La. 70721
 USPHS Outpatient Clinic, 4141 North Clarendon Avenue, Chicago, Ill. 60613
 USPHS Hospital, 14700 Riverside Drive, Detroit, Mich. 48215
 USPHS Hospital, 45th Street and Avenue North, Galveston, Tex. 77552
 USPHS Outpatient Clinic, 350 West California Avenue, Memphis, Tenn. 38106
 USPHS Hospital, 210 State Street, New Orleans, La. 70118
 USPHS Hospital, 6500 Hampton Boulevard (Larchmont), Norfolk, Va. 23508
 USPHS Hospital, 15th Avenue and Lake Street, San Francisco, Calif. 94118
 USPHS Hospital, York and Abercorn Streets, Savannah, Ga. 31402
 USPHS Hospital, 1131 14th Avenue, South, Seattle, Wash. 98114
 USPHS Hospital, Bay and Vanderbilt Streets, Staten Island, N.Y. 10304
 Administrative Officer, National Institute of Mental Health, Lexington Clinical Research Center, Leestown Pike, Lexington, Ky. 40507
 Administrative Officer, National Institute of Mental Health, Fort Worth Clinical Research Center, 3150 Horton Road, Fort Worth, Tex. 76119
 National Communicable Disease Center, 255 East Paces Ferry Road, N.W., Atlanta, Ga. 30327
 Arctic Health Research Center, 945 Sixth Avenue, Anchorage, Alaska 99501
 National Center for Urban and Industrial Health, 4876 Columbia Parkway, Cincinnati, Ohio 45226
 Indian Health Area Office, 422½ South Main Street, Aberdeen, S. Dak. 57401
 Indian Health Area Office, Federal Office Building and U.S. Courthouse, 500 Gold Avenue, S.W., Albuquerque, N.Mex. 87101
 Indian Health Area Office, P.O. Box 2143, Billings, Mont. 59101
 Indian Health Area Office, 4110 North 16th Street, Phoenix, Ariz. 85016
 Indian Health Area Office, 208 S.W. 5th Avenue, Portland, Oreg. 97204
 Alaska Native Health Area Office, P.O. Box 7-741, Anchorage, Alaska 99501
 Indian Health Area Office, P.O. and Federal Building, Oklahoma City, Okla. 73102
 U.S. Public Health Service, Supply Center, Perry Point, Md. 21902
 440. General Services Administration. The basic procurement programs of GSA are as follows:
 1. Federal Supply Service of GSA purchases thousands of common-use supply, equipment, and service items for which the various Federal agencies have recurring needs. These purchases are made under regional and national contracts, in accordance with the best interests of the Government, and include:
 a. Stock replenishment and new items for the Stores Depot Supply System;
 b. Federal Supply Schedule Contracts;
 c. Consolidated purchases of selected items which are not feasible for inclusion under programs "a" and "b" above; and

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

440. General Services Administration—Continued

- d. Purchases of a wide variety of products and services on request of Federal agencies, as needed, including many items required in connection with civil defense, disaster relief, foreign aid, etc.
- 2. Property Management and Disposal Service of GSA purchases strategic and critical raw industrial materials for the national stockpile. (GSA administers the national stockpile through the Property Management and Disposal Service. The program includes purchases of strategic and critical raw industrial materials, rotation of stocks of crude rubber, fibers, vegetable and other oils, and shellac, and disposal, from time to time, of materials excess to the needs of the stockpile.)
- 3. Public Buildings Service of GSA purchases commodities and services for the construction, remodeling, repair, and maintenance of numerous Government buildings, and
- 4. Transportation and communications of GSA contracts for transportation, communication and public utilities services.

It should be noted that GSA's purchases under 1-d above may include practically any item listed in the civilian agencies section of the Directory. However, because these purchases are made on a request basis, there is no assurance of recurring GSA demand for the items. The GSA code therefore has not been assigned to all items.

Federal Supply Service maintains mailing lists on a commodity basis, and although purchases may be on either a national or regional basis, requests to be placed on mailing lists should be directed to the Regional Director of Business Affairs, at the nearest regional office. It is not necessary to file additional forms with other GSA regions. These offices also provide counseling and other assistance to small business concerns to help them in selling to the Government. The Regional Offices are located as follows:

Region 1

Regional Director of Business Affairs, General Services Administration, John Fitzgerald Kennedy Federal Bldg., Boston, Mass. 02203. Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Region 2

Regional Director of Business Affairs, General Services Administration, 30 Church Street, New York, N.Y. 10007. Delaware, New Jersey, New York, Pennsylvania, Puerto Rico, and Virgin Islands.

Region 3

Regional Director of Business Affairs, General Services Administration, 7th and D Streets, S.W., Washington, D.C. 20407. District of Columbia, Maryland, Virginia, and West Virginia.

Region 4

Regional Director of Business Affairs, General Services Administration, 1776 Peachtree Street, N.W., Atlanta, Ga. 30309. Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee.

Region 5

Regional Director of Business Affairs, General Services Administration, 219 South Dearborn Street, Chicago, Ill. 60604. Illinois, Indiana, Kentucky, Michigan, Ohio, and Wisconsin.

Region 6

Regional Director of Business Affairs, General Services Administration, 1500 East Bannister Road, Kansas City, Mo. 64131. Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

Region 7

Regional Director of Business Affairs, General Services Administration, 819 Taylor Street, Fort Worth, Tex. 76102. Arkansas, Louisiana, Oklahoma, and Texas.

Region 8

Regional Director of Business Affairs, General Services Administration, Denver Federal Center, Building 41, Denver, Colo. 80225. Arizona, Colorado, New Mexico, Utah, and Wyoming.

Region 9

Regional Director of Business Affairs, General Services Administration, 49 Fourth Street, San Francisco, Calif. 94103. California, Hawaii, and Nevada.

Business Service Center, General Services Administration, 300 North Los Angeles Street, Los Angeles, Calif. 90012. Los Angeles and Southern California.

Region 10

Regional Director of Business Affairs, General Services Administration, 909 First Avenue, Seattle, Wash. 98104. Alaska, Idaho, Montana, Oregon, and Washington.

450. Purchasing Division, U.S. Government Printing Office, Washington, D.C. 20401.

455. Housing Assistance Administration
Purchase of water heaters, space heaters, ranges, refrigerators, lawn mowers, paint, screen wire, water closet seats, ash and garbage cans, hot air furnace filters, window shades and cloth, playground equipment and community room furniture are controlled by the Central Office of the Housing Assistance Administration on an annual contract basis. Inquiries concerning these commodities should be directed to the Department of Housing and Urban Development, Housing Assistance Administration, General Supply Officer, Operations Engineering Services Branch, Room 9170, 451 7th St. S.W., Washington, D.C. 20413. For all other commodities contact: Department of Housing and Urban Development, Housing Assistance Administration, General Supply Officer, Housing Financial Management Division, at the addresses listed below. You also may wish to ask these offices for the names and locations

FEDERAL CIVILIAN PURCHASING OFFICES

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of the local operations within their areas in order to contact them for possible business:

Region 1—New York:

346 Broadway, New York, N.Y. 10013

This office covers: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont.

Region 2—Philadelphia:

Room 1102, Widner Bldg., Chestnut and Juniper Sts., Philadelphia, Pa. 19107

This office covers: Delaware, Maryland, Virginia, West Virginia, District of Columbia, and Pennsylvania.

Region 3—Atlanta:

Room 645, Peachtree-Seventh Bldg., 50 Seventh St., N.E., Atlanta, Ga. 30323

This office covers: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Region 4—Chicago:

Room 2201, 185 North Wabash Ave., Chicago, Ill. 60601

This office covers: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

Region 5—Fort Worth:

Federal Office Bldg., Room 13-A-01, 819 Taylor St., Fort Worth, Tex. 76102

This office covers: Arkansas, Colorado, Louisiana, New Mexico, Oklahoma, Texas, Missouri.

Region 6—San Francisco:

Room 36027, 450 Golden Gate Ave., San Francisco, Calif. 94102

This office covers: Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, Alaska and Hawaii.

Region 7—Puerto Rico:

P.O. Box 3869 GPO, San Juan, Puerto Rico 00936

This office covers: Puerto Rico and the Virgin Islands.

456. For information regarding contracts for construction of college housing, contact the appropriate office listed below. Address as: Department of Housing and Urban Development, Office of the Regional Administrator, Reional Office—

Region 1—New York:

346 Broadway, New York, N.Y. 10013
This office covers: Connecticut, Maine Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont.

Region 2—Philadelphia:

Room 1102, Widner Bldg., Chestnut and Juniper Sts. Philadelphia, Pa. 19107

This office covers: Delaware, Maryland, Virginia, West Virginia, District of Columbia, and Pennsylvania.

Region 3—Atlanta:

Room 645, Peachtree-Seventh Bldg., 50 Seventh Streets, N.E., Atlanta, Ga. 30323

This office covers: Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Region 4—Chicago:

Room 2201, 185 North Wabash Ave., Chicago, Ill. 60601

This office covers: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.

Region 5—Fort Worth:

Federal Office Building, Room 13-A-01, 819 Taylor St., Fort Worth, Tex. 76102

This office covers: Arkansas, Colorado, Louisiana, New Mexico, Oklahoma, Texas, and Missouri.

308-220-68—6

Region 6—San Francisco:

Box 36027, 450 Golden Gate Ave., San Francisco, Calif. 94102

This office covers: Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, Alaska, and Hawaii.

Region 7—Puerto Rico:

P.O. Box 3869 GPO, San Juan, Puerto Rico 00936

This office covers: Puerto Rico and the Virgin Islands.

457. Contracts and Agreements Division, Office of General Services, Department of Housing and Urban Development, Room 2136, 451 7th St., S.W., Washington, D.C. 20410

458. Contracting Section, Management Division, Office of the Assistant Commissioner for Administration, Federal Housing Adminstration, Department of Housing and Urban Development, Room 5278, 451 7th St. S.W., Washington, D.C. 20411

475. Chief, Procurement Division, Panama Canal Company, 4400 Dauphine Street, New Orleans, La. 70140.

480. Division of Purchasing, Tennessee Valley Authority, Chattanooga, Tenn. 37401.

485. Office Services Division, Federal Communications Commission, 1919 M St. N.W. Washington, D.C. 20554

490. Director, Procurement Division, Bureau of Facilities, P.O. Department, 12th and Pennsylvania Avenue, N.W., Washington, D.C. 20260.

Vendors may also contact the Chief Procurement and Supply Branch at any of the following fifteen (15) Post Office Department Regional Offices, for additional varieties of products and services:

1. Regional Director
Post Office Department
John Hancock Building
Atlanta, Ga. 30304

Attn: Engineering and Facilities Division Chief, Procurement and Supply Branch

2. Regional Director.
Post Office Department
Post Office and Courthouse Building
Boston, Mass. 02109

Attn: Engineering and Facilities Division Chief, Procurement and Supply Branch

3. Regional Director
Post Office Department
Main Post Office Building
Chicago, Ill. 60699

Attn: Engineering and Facilities Division Chief, Procurement and Supply Branch.

4. Regional Director
Post Office Department
P.O. Box 1999
Cincinnati, Ohio 45201

Attn: Engineering and Facilities Division Chief, Procurement and Supply Branch.

5. Regional Director
Post Office Department
Box 3, Main Post Office Building
Dallas, Tex. 75221

Attn: Engineering and Facilities Division Chief, Procurement and Supply Branch.

6. Regional Director
Post Office Department
P.O. Box 1979
Denver, Colo. 80201

Attn: Engineering and Facilities Division Chief, Procurement and Supply Branch.

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

7. Regional Director
Post Office Department
Post Office Building
Memphis, Tenn. 38101
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

8. Regional Director
Post Office Department
512 Nicollet Avenue
Minneapolis, Minn. 55425
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

9. Regional Director
Post Office Department
Main Post Office Building
New York, N.Y. 10098
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

10. Regional Director
Post Office Department
General Post Office Building
Philadelphia, Pa. 19104
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

11. Regional Director
Post Office Department
1114 Market Street
St. Louis, Mo. 63199
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

12. Regional Director
Post Office Department
631 Howard Street
San Francisco, Calif. 94106
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

13. Regional Director
Post Office Department
P.O. Box 9000
Seattle, Wash. 98109
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

14. Regional Director
Post Office Department
425 2nd Street, N.W.
Washington, D.C. 20269
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

15. Regional Director
Post Office Department
Main Post Office Building
Wichita, Kans. 67225
Attn: Engineering and Facilities Division
Chief, Procurement and Supply Branch.

500. Purchase and Contract Division, D M & S, Veterans Administration, Washington, D.C. 20420.

502. Marketing Center, Supply Service, Veterans Administration, P.O. Box 76, Hines, Ill. 60141.

503. Marketing Division, Supply Service, Veterans Administration Supply Depot, Somerville, N.J. 08876.

503a. Veterans Canteen Service, Department of Medicine and Surgery, Veterans Administration, Washington, D.C. 20420.
Price agreements with manufacturers are negotiated by the Procurement Section located in the Office of the Director of Veterans Canteen Service, Washington, D.C. 20420.
Firms which want to be listed with the Veterans Canteen Service should contact the Chief, Procurement, and should furnish all the necessary information with reference to cost, terms, shipping, weight, samples, etc.

Canteens are permitted to purchase (a) only from authorized sources, and (b) only those items which are listed.

Vendors or their representatives are discouraged from calling on the individual canteens.

506. Contact one or more of the Veterans Administration field stations listed below. Address as: Director, Veterans Administration Hospital; Manager, Veterans Administration Regional Office, and so forth, as appropriate:

ALABAMA	ILLINOIS
Hospitals:	Regional Office:
Montgomery	Chicago
Birmingham	Hospitals:
Tuscaloosa	Chicago (333 East Huron)
Tuskegee	Chicago (820 South Damon Avenue)
	Danville
	Downey
	Hines
	Marion
	Supply Depot: Hines
ARAKANSAS	INDIANA
Hospitals:	Hospitals:
Fayetteville	Fort Wayne
Little Rock	Indianapolis (1481 West 10th St.)
	Marion
CALIFORNIA	IOWA
Hospitals:	Hospitals:
Fresno	Des Moines
Livermore	Iowa City
Long Beach	Knoxville
Los Angeles	
Martinez	
Palo Alto	
San Fernando	
San Francisco	
Sepulveda	
Supply Depot:	
Wilmington	
COLORADO	KANSAS
Hospitals:	Hospitals:
Denver	Topeka
Fort Lyon	Wadsworth
Grand Junction	Wichita
CONNECTICUT	KENTUCKY
Hospitals:	Hospitals:
Newington	Lexington
West Haven	Louisville
DELAWARE	LOUISIANA
Hospital:	Hospitals:
Wilmington	Alexandria
DISTRICT OF COLUMBIA	New Orleans
Veterans Benefits Office,	Shreveport
Washington Hospital:	
Washington	
Central Office Supply Division:	
Washington	
FLORIDA	MAINE
Hospitals:	Hospital:
Bay Pines	Togus
Coral Gables	
Lake City	
GEORGIA	MARYLAND
Hospitals:	Hospitals:
Atlanta	Baltimore
Augusta	Fort Howard
Dublin	Perry Point
HAWAII	MASSACHUSETTS
Regional Office:	Hospitals:
Honolulu	Bedford
	Boston
	Brockton
	Northampton
	West Roxbury
MICHIGAN	
Hospitals:	
Ann Arbor	
Battle Creek	
Dearborn	
Iron Mountain	
Saginaw	
MINNESOTA	
Hospitals:	
Minneapolis	
St. Cloud	

FEDERAL CIVILIAN PURCHASING OFFICES

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MISSISSIPPI	OREGON	WASHINGTON—Continued	WISCONSIN
Hospitals:	Hospitals:	Hospitals—Continued	Hospitals:
Biloxi	Portland	Walla Walla	Madison
Jackson	Roseburg	WEST VIRGINIA	Tomah
MISSOURI	White City	Hospitals:	Wood
Hospitals:	PENNSYLVANIA	Beckley	WYOMING
Jefferson Barracks	Hospitals:	Clarksburg	Hospitals:
Kansas City	Altoona	Huntington	Cheyenne
Poplar Bluff	Butler	Martinsburg	Sheridan
St. Louis	Coatesville		
MONTANA	Erie		
Hospitals:	Lebanon		
Fort Harrison	Philadelphia		
Miles City	Pittsburgh (Leech		
NEBRASKA	Farm Road)	Pittsburgh (University	
Hospitals:	Pittsburgh (University	Drive)	
Grand Island	Wilkes-Barre		
Lincoln	Regional Office:		
Omaha	Manila		
NEVADA	PUERTO RICO		
Hospital:	San Juan		
Reno	RHODE ISLAND		
NEW HAMPSHIRE	Hospital:		
Hospital:	Providence		
Manchester	SOUTH CAROLINA		
NEW JERSEY	Hospitals:		
Hospitals:	Charleston		
East Orange	Columbia		
Lyons	SOUTH DAKOTA		
Supply Depot:	Hospitals:		
Somerville	Fort Meade		
NEW MEXICO	Hot Springs		
Hospital:	Sioux Falls		
Albuquerque	TENNESSEE		
NEW YORK	Hospitals:		
Hospitals:	Memphis 15 (Park Ave.		
Albany	Getwell St.)		
Batavia	Mountain Home		
Bath	Murfreesboro		
Bronx	Nashville		
Brooklyn	TEXAS		
Buffalo	Regional Offices:		
Canandaigua	Houston		
Castle Point	Lubbock		
Montrose	Waco		
New York	Hospitals:		
Northport, Long Island	Amarillo		
Syracuse	Bonham		
NORTH CAROLINA	Big Spring		
Regional Office:	Dallas		
Winston Salem	Houston		
HOSPITALS:	Marlin		
Durham	Kerrville		
Fayetteville	Temple		
Oteen	Waco		
Salisbury	UTAH		
NORTH DAKOTA	Hospital:		
Hospital:	Salt Lake City (Fort		
Fargo	Douglas Station)		
OHIO	VERMONT		
Hospitals:	Hospital:		
Brecksville	White River Junction		
Chillicothe	VIRGINIA		
Cincinnati	Hospitals:		
Cleveland	Kecoughtan		
Dayton	Richmond		
OKLAHOMA	Salem		
Hospitals:	WASHINGTON		
Muskogee	Hospitals:		
Oklahoma City	American Lake		
	Seattle		
	Spokane		
	Vancouver		

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

514. Contact one or more of the National Park Service Offices listed below—Continued
 Regional Director, Southwest Regional Office, National Park Service, Old Santa Fe Trail, P.O. Box 728, Santa Fe, N. Mex. 87501.
 Regional Director, Western Regional Office, National Park Service, 450 Golden Gate Avenue, P.O. Box 36063, San Francisco, Calif. 94102.
 Regional Director, National Capital Regional Office, National Park Service, 1100 Ohio Drive, S.W., Washington, D.C. 20240.

515. Contact one or more of the Bureau of Mines Offices listed below.
 Address as: Chief, Eastern Administrative Office, Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pa. 15213 (Serves all areas east of the Mississippi River.)
 Chief, Western Administrative Office, Bureau of Mines, Building 20, Denver Federal Center, Denver, Colo. 80225 (Serves all areas west of the Mississippi River.)
 Address as: Purchasing Agent, U.S. Bureau of Mines:
 Alabama 35205, Birmingham, P.O. Box 3417, Health and Safety Activity.
 Alabama 35486, University, P.O. Box L, Tuscaloosa Metallurgy Research Center.
 Alaska 99801, Juneau, P.O. Box 550, Mineral Resource Office.
 Colorado 80215, Lakewood, P.O. Box 15087, Health and Safety Activity.
 Indiana 47591, Vincennes, P.O. Box 339, Health and Safety Activity.
 Maryland 20740, College Park, College Park Metallurgy Research Center.
 Minnesota 55802, Duluth, 321 Federal Building, Health and Safety Activity.
 Minnesota 55417, Minneapolis, E. 58th Street, at Mississippi River, Minneapolis Research Center.
 Missouri 26505, Rolla, P.O. Box 136, Rolla Metallurgy Research Center.
 Nevada, 89505, Reno, 1605 Evans Avenue, Reno Metallurgy Research Center.
 Oklahoma 74003, Bartlesville, P.O. Box 1321, Petroleum Research Center.
 Oregon 97321, Albany, P.O. Box 492, Albany Metallurgy Research Center.
 Pennsylvania 15213, Pittsburgh, 4800 Forbes Avenue, Health and Safety Activity.
 Pennsylvania 17972, Schuylkill Haven, Anthracite Research Center.
 Pennsylvania 18700, Wilkes-Barre, 223 Federal Building, Health and Safety Activity.
 Texas 79106, Amarillo, P.O. Box 185, Helium Activity.
 Texas, Dallas, 75202, 1114 Commerce Street, Health and Safety Activity.
 Virginia 24273, Norton, Health and Safety Activity.
 Utah 84112, Salt Lake City, 1600 East First South Street, Metallurgy Research Center.
 West Virginia 26505, Morgantown, P.O. Box 880, Morgantown Research Center.
 West Virginia 25580, Mount Hope, P.O. Box 112, Health and Safety Activity.
 Wyoming 82071, Laramie, P.O. Box 3395, University Station, Laramie Research Center.
 Address as: Chief, Division of Procurement and Property Management.
 U.S. Bureau of Mines, for the following office: Washington, D.C. 20240, Room 2757, Interior Building.

516. Contact one or more of the following offices of the Bureau of Sport Fisheries and Wildlife, U.S. Department of Interior—
 Purchasing Officer, Bureau of Sport Fisheries and Wildlife, Room 2266, Interior Building, Washington, D.C. 20240.
 Bureau of Sport Fisheries and Wildlife, 220 West Copper Avenue, P.O. Box 1306, Albuquerque, N. Mex. 87103.
 Bureau of Sport Fisheries and Wildlife, Peachtree-Seventh Building, 50 Seventh Street, N.E., Atlanta, Ga. 30323.
 Bureau of Sport Fisheries and Wildlife, Interior Building, Portland, Ore. 97208.
 Bureau of Sport Fisheries and Wildlife, 1006 Westlake Street, Minneapolis, Minn. 55408.
 Bureau of Sport Fisheries and Wildlife, 1105 Blake Building, Boston, Mass. 02111.

516a. Field Offices:
 Regional Director, Bureau of Commercial Fisheries, 6116 Arcade Building, 1319 Second Avenue, Seattle, Wash. 98101.
 Regional Director, Bureau of Commercial Fisheries, Don Ce-Sar Federal Center, P.O. 6245, St. Petersburg, Fla. 33736.
 Regional Director, Bureau of Commercial Fisheries, Federal Building, 14 Elm Street, Gloucester, Mass. 01930.

516a. Regional Director, Bureau of Commercial Fisheries, 5 Research Drive, Ann Arbor, Mich. 48103.
 Regional Director, Bureau of Commercial Fisheries, P.O. Box 1668, Juneau, Alaska 99801.
 Regional Director, Bureau of Commerical Fisheries, 101 South Seaside Avenue, Terminal Island, Calif. 90731.
 Area Director, Hawaii Area Office, Bureau of Commercial Fisheries, 2570 Dole Street, P.O. Box 3830, Honolulu, Hawaii 96812.

517. Contact one or more of the following offices of the Geological Survey, U.S. Department of Interior:
 Management Officer, 345 Middlefield Road, Menlo Park, Calif. 94025.
 Management Officer, Denver Federal Center, Denver, Colo. 80225.
 Procurement Officer, Geological Survey, U.S. Department of the Interior, Room 5213, General Services Building, Washington, D.C. 20242.

518. Bonneville Power Administration, Branch of Supply, P.O. Box 3621, Portland, Oreg. 97208.

519. Southwestern Power Administration, U.S. Department of the Interior, P.O. Drawer 1619, Tulsa, Okla. 74101.

520. National Bureau of Standards, Procurement Section, Washington, D.C. 20234.
 National Bureau of Standards, Boulder Laboratory, Procurement Section, Boulder, Colo. 80302.

521. Federal Water Pollution Control Administration; contact one of the folowing offices.
 Procurement Office, 633 Indiana Avenue, N.W., Washington, D.C. 20242.
Regional Offices:
 Department of the Interior, FWPCA, Southwest Region, 100 McAllister Street, Room 1802, San Francisco, Calif. 94102.
 Department of the Interior, FWPCA, Southwest Region, Suite 300, 1421 Peachtree Street, N.E., Atlanta, Ga. 30323.
 Department of the Interior, FWPCA, Great Lakes Region, New Post Office Building, Room 712, 33 East Congress Parkway, Chicago, Ill. 60605.
 Department of the Interior, FWPCA, Northeast Region, John F. Kennedy Federal Building, 14th Floor, Boston, Mass. 02203.
 Department of the Interior, FWPCA, Missouri Basin Region, 601 East 12th Street, Kansas City, Mo. 64111.

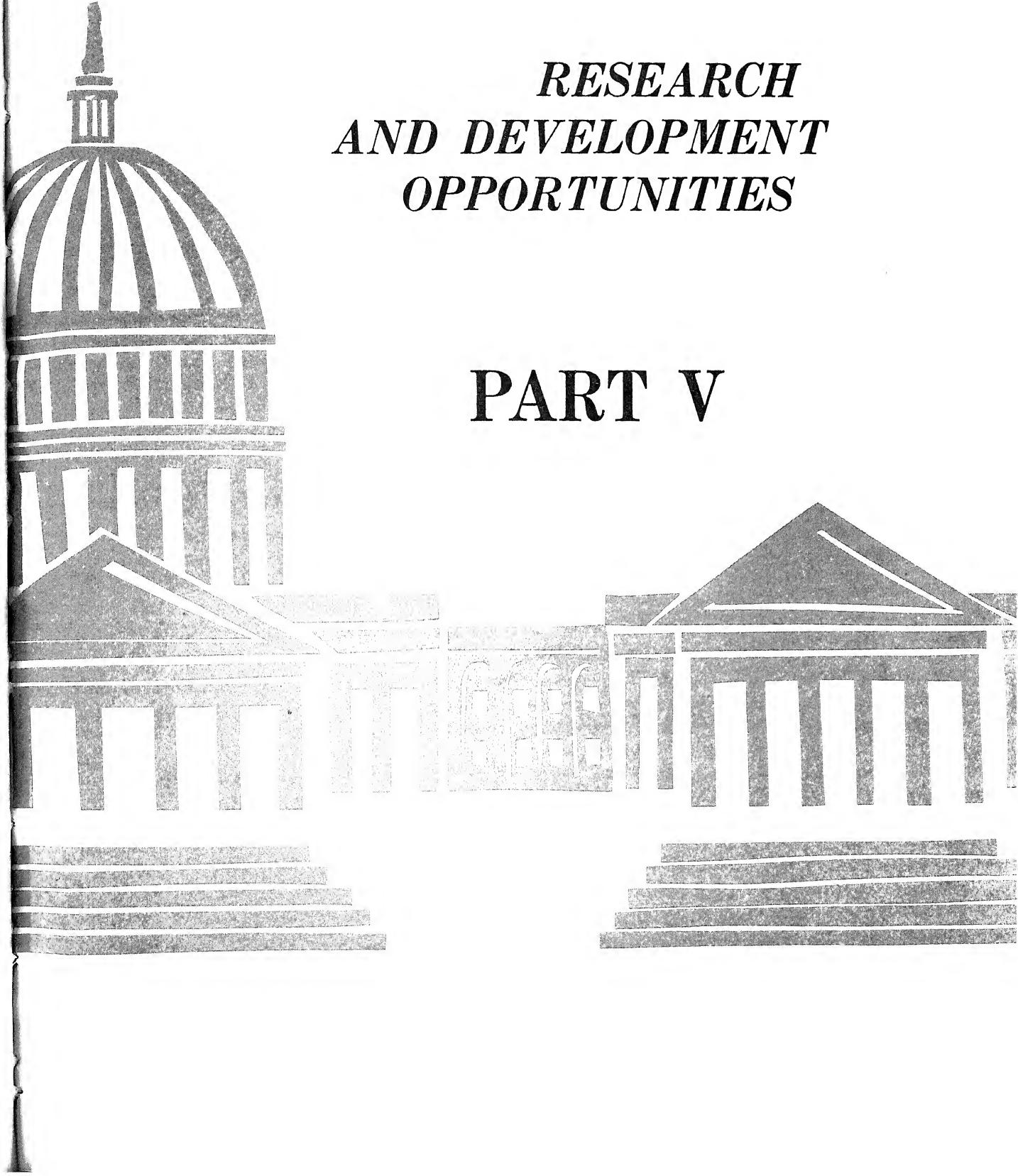
FEDERAL CIVILIAN PURCHASING OFFICES

Department of the Interior, FWPCA, Ohio Basin Region, Robert A. Taft Sanitary Engineering Center, Federal Office Building, Room 115, 4665 Columbia Parkway, Cincinnati, Ohio 45226.

Department of the Interior, FWPCA, Northwest Region, Room 570, Pittock Block, 921 S.W. Washington Street, Portland, Oreg. 97205.

Department of the Interior, FWPCA, South Central Region, 1000 Main Street, Room 302, Dallas, Tex. 75202.

Department of the Interior, FWPCA, Middle Atlantic Region, 300 West Main Street, Charlottesville, Va. 22901.



*RESEARCH
AND DEVELOPMENT
OPPORTUNITIES*

PART V

MILITARY DEPARTMENTS WITH MAJOR RESEARCH AND DEVELOPMENT ACTIVITIES

Department of the Army

The U.S. Army Materiel Command is responsible for the complete life cycle of U.S. Army hardware including research, development, procurement, production, supply, and maintenance. Headquarters AMC, Washington, D.C., provides supervisory, planning, and budgetary direction to the several major subordinate commands and other installations and activities independent of the commands where contracts are executed and administered. Those elements of AMC in which research and development programs are carried out are composed of independent laboratories and separate commands.

Independent Laboratories

Independent laboratories are under the direct control of Director, Research and Development, U.S. Army Materiel Command, Washington, D.C., 20315. There are 8 such independent laboratories.

1. U.S. Army Ballistic Research Laboratory

Principal Interests: Accomplish basic and applied research in weapons technology; weapons systems evaluation; and ballistics and related sciences of physics, mathematics, chemistry, engineering and biophysics. Provide technical services to major subordinate commands and other elements of AMC, the Department of the Army, Department of Defense, and other Government agencies.

Address:

Commanding Officer
Aberdeen Proving Ground
Aberdeen, Md. 21005

2. U.S. Army Coating and Chemical Laboratory

Principal Interests: Perform and monitor basic and applied research and engineering investiga-

tions in the fields of automatic chemicals, organic and semi-organic coatings, and cleaners as directed by Headquarters, AMC. Participate in the standardization and industrial preparedness programs within these assigned fields and provide technical assistance to AMC major subordinate commands and activities on problems arising in assigned fields.

Address:

Commanding Officer
Aberdeen Proving Ground
Aberdeen, Md. 21005

3. U.S. Army Cold Regions Research and Engineering Laboratory

Principal Interests: Conduct basic and applied research pertaining to snow, ice and frozen ground.

Address:

Commanding Officer
Hanover, N.H. 03755

4. Harry Diamond Laboratories

Principal Interests: Perform basic and applied research in, (but not restricted to), the fields of radiating or influence fuzing, time fuzing (electrical, electronic, decay or fluid), and selected command fuzing for target detection and signature analysis; and for target intercept phase of terminal guidance. Perform weapon systems synthesis and analysis to determine characteristics which will affect fuze design to achieve maximum immunity to adverse influences, including counter-counter measures, nuclear environment, battle field conditions and high altitude and space environments. Perform basic and applied research, in support of assigned missions, or as directed by Dir/R&D, AMC, on instrumentation, measurement and simulation, on materials, components and sub-

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

systems including electronic timers for weapons and on selected advanced energy transformation and control systems. Conduct basic research in the physical sciences, as directed by Dir/R&D, AMC. Perform basic and applied research on fluid amplification and control and development of pure fluid devices and systems.

Address:

Commanding Officer
Connecticut Ave.—Van Ness Street, N.W.
Washington, D.C. 20438

5. U.S. Army Human Engineering Laboratories

Principal Interests: Perform human factors research and engineering as directed by Headquarters, AMC. Monitor the total AMC human factors program. Conduct such human factors research and engineering as requested by the AMC major subordinate commands and project managers. Assure that AMC materiel evolved conforms with the capabilities and limitations of the fully equipped soldier to operate and maintain the materiel in its operational environment consistent with tactical requirements and logistic capabilities.

Address:

Commanding Officer
Aberdeen Proving Ground
Aberdeen, Md. 21005

6. U.S. Army Materials Research Agency

Principal Interests: Manage and direct that portion of the AMC materials research program conducted within its own laboratories, as assigned by the Director of Research and Development, Headquarters, AMC, including basic scientific research, and research in metals, ceramics and other materials. Under the direction of the Chief, Research Division, Directorate of Research and Development, Headquarters, AMC, coordinate the total materials research program of the AMC.

Address:

Commanding Officer
Watertown Arsenal
Watertown, Mass. 02172

7. U.S. Army Nuclear Defense Laboratory

Principal Interests: Provide technical information in the field of radiological defense and health physics to agencies responsible for the development of clothing, vehicles, protective structures, and other end items which might incorpo-

rate nuclear protection. Develop radioactive waste disposal methods and shipping containers. Conduct research in the nuclear weapons effects research area of fallout, residual radiation, and thermal phenomena.

Address:

Commanding Officer
Edgewood Arsenal, Md. 21010

8. Natick Laboratories

Principal Interests: Accomplish assigned research and development in the physical, biological, and earth sciences, and engineering to meet military requirements in the commodity areas of textiles, clothing, body armor, footwear, organic materials, insecticides and fungicides, subsistence, containers, food service equipment, field support equipment (including printing and composing equipment), tentage, and air delivery equipment.

Address:

Commanding General
U.S. Army Natick Laboratories
Natick, Mass. 01760

U.S. Army Mobility Equipment Command

The Commanding General, U.S. Army Mobility Equipment Command, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120, is responsible for the integrated commodity management of surface transportation equipment (other than tactical, wheeled and general purpose vehicles), mapping and geodesy equipment for the field armies, assigned electric power generation equipment, construction and services equipment, etc.

1. U.S. Army Engineering Research and Development Laboratories

Principal Interests: Research and development in earthmoving, industrial engines and turbines, fuels handling, environmental control, electric power and propulsion, direct energy sources, detectors, bridges and marine craft, mine warfare, fortifications and obstacles, camouflage and deception, water purification, nuclear weapons effects, materials and environmental testing. Preparation of procurement data packages including development of specifications of materiel procured in quantity; engineering studies and tests to determine performance and quality assurance data for standardization documents; evaluation of unsatis-

factory equipment reports and development of equipment modifications; tests of preproduction models, production samples and production sampling techniques; industrial engineering for all items of materiel; value engineering; product reviews; training literature and maintenance packages; initial production of new equipment procured in quantity.

Address:

Commanding Officer
U.S. Army Engineer Research and Development Laboratories
Fort Belvoir, Va. 22060

2. U.S. Army Tank Automotive Command

Principal Interests: Perform advanced design programs on tank-automotive vehicles and components; conduct research programs in physical sciences, nucleonics and land locomotion as pertains to tank-automotive materiel. Design and construct operable demonstration model of tracked and wheeled vehicles. Operate automotive laboratories for research, development and engineering of military vehicles and components including engines, power trains, and suspension systems.

Address:

Commanding General
U.S. Army Tank Automotive Command
Warren, Mich. 48090

U.S. Army Missile Command

The Commanding General, U.S. Army Missile Command, Redstone Arsenal, Huntsville, Ala. 35809, is responsible for the integrated commodity management of guided and ballistic missiles, air defense systems to include fire coordination, target missiles, and free rockets as well as miscellaneous related special purpose and multisystem test equipment. This responsibility includes design and development, product and maintenance engineering, procurement, production, industrial mobilization planning, and wholesale inventory management and supply control functions.

1. Redstone Arsenal

Principal Interests: Plan, direct and supervise a material development program embracing guided and ballistic systems, rocket motors, and components peculiar to these systems. Plan, direct, accomplish and evaluate basic and applied research in support of the development program.

Address:

Commanding General
Redstone Arsenal,
Huntsville, Ala. 35809

U.S. Army Weapons Command

The Commanding General, U.S. Army Weapons Command, Rock Island Arsenal, Rock Island, Ill. 61202, is responsible for the integrated commodity management of the research, development, procurement and production of cannon, military rifles, inspection gages, machine guns, hand guns, aircraft armament, anti-aircraft artillery, rocket launchers, combat vehicles, personnel carriers, recovery vehicles, tools and equipment and tool sets, commercial rifles, pistols, revolvers, target material and support in national match services. There are two such installations.

1. Rock Island Arsenal

Principal Interests: Conduct basic and applied research and development related to weapons and weapon components which are new in design and concept. Perform research with respect to rubber, corrosion preventives, greases, and packaging techniques for advanced materiel. Perform mechanical engineering research related to design, development engineering and production of components and end items of field artillery and rocket launchers.

Address:

Commanding Officer
Rock Island Arsenal
Rock Island, Ill. 61202

2. Watervliet Arsenal

Principal Interests: Plan and conduct design, development, product engineering, procurement and manufacturing relating to mortars, recoilless rifles, cannon assemblies and components thereof, related secondary items, tools and equipment. Responsible for design, procurement, storage and issue of all special final inspection gages for cannon, and cannon bore inspection tools, calibration, proofing and test equipment. Responsible for applied research in physical sciences, engineering sciences and high pressure materials and processes. Perform weapons oriented exploratory research in the fields of applied mathematics, applied mechanics, solid state physics, metallurgy, microscopy and high pressure materials and processes.

Address:

Commanding Officer
 Watervliet Arsenal
 Watervliet, N.Y. 12189

U.S. Army Munitions Command

The Commanding General, U.S. Army Munitions Command, Dover, N.J. 07801, is responsible for integrated commodity management of nuclear and non-nuclear ammunition; rockets and missile warhead sections; chemical, biological, and radiological material; propellants, explosives, and pyrotechnics; fire control; and propellant-actuated devices. There are 4 such installations.

1. Biological Laboratories

Principal Interests: Conduct research and development in the fields of biological agents and weapons, including the defensive aspects.

Address:

Commanding Officer
 Biological Laboratories
 Fort Detrick, Md. 21701

2. Edgewood Arsenal

Principal Interests: Conduct research and development in the fields of chemical, smoke and flame weapons, including the defensive aspects; development engineering, production engineering and maintenance engineering services required for new and standard chemical smoke, incendiary, flame and special weapons systems and CBR defense items.

Address:

Commanding Officer
 Edgewood Arsenal
 Edgewood Arsenal, Md. 21010

3. Frankford Arsenal

Principal Interests: Conduct research in fields of non-ferrous metallurgy, optics, synthetic lubricants, and plating and electro-chemical treatment of metals. Design and develop fire control devices, cartridge actuated devices, small arms ammunition, cartridge cases and projectiles for artillery ammunition, and mechanical time fuzes.

Address:

Commanding Officer
 Frankford Arsenal
 Philadelphia, Pa. 19137

4. Picatinny Arsenal

Principal Interests: Conduct research in the fields of explosives, propellants and pyrotechnics. Operate the DOD Plastic Technical Evaluation Center. Design and develop artillery ammunition, propellants, liquid and hybrid propulsion systems, bombs, mines, grenades and atomic warhead sections.

Address:

Commanding Officer
 Picatinny Arsenal
 Dover, N.J. 07801

U.S. Army Electronics Command

The Commanding General, U.S. Army Electronics Command, Fort Monmouth, N.J. 07703, is responsible for integrated commodity management of the research, development, procurement, production of electronic materiel, equipment, and systems to support the U.S. Army in the areas of communications, electronic warfare, combat and surveillance, automatic data processing, radar and meteorological materiel, avionics, electronic component parts and materials. There are 3 such installations.

1. U.S. Army Electronics Research and Development Agency

Principal Interests: Conduct continuing research in all fields of science, providing knowledge beneficial to progress in the army of military electronics. Develop new materials, techniques and design for electronic components parts, equipment and systems for communications, automatic data processing, surveillance, electronic warfare, meteorology avionics and related fields.

Address:

Commanding Officer
 U.S. Army Electronics Research and Development Agency
 Fort Monmouth, N.J. 07703

2. U.S. Army Electronics Research and Development Activity

Principal Interests: Conduct research, design and development of systems and equipment in the fields of automatic data processing, communica-

tions, electronic warfare, combat surveillance and target acquisition, meteorology and avionics. Also provide worldwide meteorological support.

Address:

Commanding Officer
U.S. Electronics Research and Development Activity
Fort Huachuca, Ariz. 85613

3. U.S. Army Electronics Research and Development Activity

Principal Interests: Conduct continuing research (relating to the missile program) in the fields of missile electronic warfare, missile vulnerability, missile surveillance, environmental sciences, including meteorology, electronic data processing, and missile range instrumentation leading to the development of equipment, systems, techniques, and devices. Provide meteorological support for the research and development activities of the U.S. Army Missile Ranges, and to coordinate the missile electronic countermeasures effort of the U.S. Army.

Address:

Commanding Officer
U.S. Army Electronics Research and Development Activity
White Sands Missile Range, N. Mex. 88002

U.S. Army Test and Evaluation Command

The Commanding General, U.S. Army Test and Evaluation Command is responsible for planning and conducting engineering and service tests of Army materiel for AMC.

1. Dugway Proving Ground

Principal Interests: Conduct environmental and surveillance on chemical and biological agents; engineering design tests on other items; research program in the meteorological application of chemical and biological operations; and conduct highly technical tests of field trials.

Address:

Commanding Officer
Dugway Proving Ground
Dugway, Utah 84022

Office of Civil Defense

The Director of Civil Defense is responsible for formulation, development, execution, and administration of the Civil Defense program, including the following: fallout shelter program; civilian chemical, biological, and radiological warfare defense program; civil defense warning, alerting, and communications; emergency assistance to State and local governments in a post-attack period; protection and emergency operational capability of state and local governments; financial assistance and donation of Federal surplus property to States for civil defense purposes; post-attack damage assessment; civil defense research and development; civil defense training, education, public information, and industrial participation.

Principal Interests: Research, design, and development of systems and equipment in the fields of civil defense shelter construction, shelter habitation and management, warning, alerting, protection, training, and data processing.

Address:

Director, Office of Civil Defense
Office of the Secretary of the Army
The Pentagon
Washington, D.C. 20310
Attention: MGT(PS)

**Office of the Surgeon General,
Department of the Army**

The Surgeon General, Department of the Army, is responsible for research and development in areas of basic and applied medical and scientific research applicable to medical sciences, supplies and equipment. Contracts are executed and administered by one command.

1. U.S. Army Medical Research and Development Command

Principal Interests: Basic and applied research and development relating to medical sciences, supplies and equipment.

Address:

Commanding General
U.S. Army Medical Research and Development Command
Office of the Surgeon General
Washington, D.C. 20315

Department of the Navy

The Navy's research and development programs are accomplished primarily through the Naval Material Command which includes the Naval Air Systems Command, Naval Electronic Systems Command, Naval Engineering Facilities Command, Naval Ordnance Systems Command, Naval Ship Systems Command, and the Naval Supply Systems Command; the Bureau of Navy Personnel; the Bureau of Medicine and Surgery; and the Office of Naval Research.

These activities support research and development programs within their specific fields of interest. This is accomplished through the use of government installations as well as through work performed under contract by business concerns and educational and nonprofit institutions.

Office of Naval Research

This office is primarily concerned with the support of basic research. Contract awards usually result from unsolicited proposals submitted by scientific organizations. This office consists of three major groups, as follows:

1. Naval Research Group

Principal interests: Acoustics, geography, geophysics, metallurgy, chemistry, including physical, organic, inorganic and colloid and propulsion chemistry, solid state physics, nuclear physics, electronics, mathematics, logistics and mathematical statistics, fluid dynamics, physiology, biochemistry, microbiology, medicine, and dentistry, biology, group psychology, physiological psychology, engineering psychology and personnel training.

2. Naval Applications Group

Principal Interests: Research and exploratory development in the field of aircraft and missile systems, air warfare, surface weapons systems, advanced surface vessel problems, amphibious warfare systems, underwater weapons, underwater communications and navigation, noise reduction in naval vessels, and advanced submarine problems.

3. Naval Analysis Group

Principal Interests: Preliminary investigations of systems and warfare problems; directs and monitors systems and warfare analysis studies

undertaken by the Naval Warfare Research Center, and selectively sponsored under contract with industry, research institutes, and universities.

Address:

Chief of Naval Research
Department of the Navy
Washington, D.C. 20360

Bureau of Naval Personnel

Principal Interests: Applied research in personnel administration and related behavioral sciences contributing to improved management, training and utilization of manpower.

Address:

Chief of Naval Personnel
Department of the Navy
Washington, D.C. 20370

Bureau of Medicine and Surgery

Principal Interests: Aviation medicine, general medicine and surgery, atomic medicine, toxicology, research psychology, guided missiles health hazards, dental research, field medicine and development, defense medical research, submarine and shipboard medical research.

Address:

Chief, Bureau of Medicine and Surgery
Department of the Navy
Washington, D.C. 20360
Building Location: 23d and E Streets N.W.

Naval Air Systems Command

Principal Interests: Design, development, testing and evaluation of naval airframes, aircraft engines, components, and fuels and lubricants therefore; airborne versions of electronic equipment, pyrotechnics, and mine sweeping equipment; air-launched weapon systems and underwater sound systems; aircraft drone and target systems; catapults, arresting gear, visual landing aids, photographic equipment, meteorological equipment, ground handling equipment for aircraft, parachutes, flight clothing, and survival equipment.

Address:

Commander, Naval Air Systems Command
Department of the Navy
Washington, D.C. 20360

Naval Electronic Systems Command

Principal Interests: Research, development, testing and evaluation in the fields of electronics, electronics systems and major components.

Address:

Commander, Naval Electronic Systems Command
Department of the Navy
Washington, D.C. 20360

propulsion, shipboard surveillance, navigation, communications, mine and torpedo countermeasures, noise, vibration, shock, materials, fuels and lubricants, oceanography, and data processing techniques and equipment.

Address:

Commander, Naval Ship Systems Command
Department of the Navy
Washington, D.C. 20360

Naval Facilities Engineering Command

Principal Interests: Construction materials, soil mechanics, pavements, harbor development, construction equipment, snow removal and control, cold weather engineering, deep ocean engineering, equipment and materials against atomic, biological and chemical warfare, special transportation equipment, utilities, electromagnetic interference suppression, and corrosion prevention in marine structures.

Address:

Commander, Naval Facilities Engineering Command
Department of the Navy
Washington, D.C. 20360

Naval Supply Systems Command

Principal Interests: Research and development in the supply, fiscal, and logistics field.

Address:

Commander, Naval Supply Systems Command
Department of the Navy
Washington, D.C. 20360

Naval Research Laboratory

Principal Interests: Conducts scientific research and development in materials, equipment, techniques, and systems for the Navy; major fields of interest are electronics, materials, and nucleonics.

Address:

Director, Naval Research Laboratory
4555 Overlook Avenue SW
Washington, D.C. 20360

Naval Ordnance Laboratory

Principal Interests: Basic and applied research in physics, chemistry, aeroballistics, and mathematics in areas that relate to weapons; development and evaluation of both conventional and nuclear weapons.

Address:

Commander, U.S. Naval Ordnance Laboratory
White Oak, Silver Spring, Md. 20910

Naval Ordnance Station

Principal Interests: Research, development, test and evaluation of ammunition, pyrotechnics, high explosives, and solid propellants used in missiles and rockets.

Address:

Commanding Officer, Naval Ordnance Station
Indian Head, Md. 20640

Naval Ship Systems Command

Principal Interests: Research, development, testing, and evaluation in the fields of ship structures, hydromechanics, ship machinery, nuclear

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY**Naval Weapons Laboratory**

Principal Interests: Research, development, test and evaluation in the field of exterior, interior and terminal ballistics, ordnance systems, and ordnance materials.

Address:

Commanding Officer, U.S. Naval Weapons Laboratory
Dahlgren, Va. 22448.

Naval Ship Research & Development Center

Principal Interests: Research, development, test and evaluation in the fields of hydrodynamics, naval architecture, structural mechanics, acoustics, vibration, aerodynamics, and mathematical analysis and computer techniques.

Address:

Commanding Officer and Director
Naval Ship Research and Development Center
Washington, D.C. 20007

Annapolis Division, Naval Ship Research & Development Center

Principal Interests: Research, development, test and evaluation in naval engineering processes, machinery and components.

Address:

Officer in charge
Naval Ship Research and Development Center
Annapolis, Md. 21402

Naval Applied Science Laboratory

Principal Interests: Research, development, test and evaluation in materials, electronic components, celestial, inertial and magnetic navigation systems, chemical agent and radiation detection devices.

Address:

Commanding Officer and Director
U.S. Naval Applied Science Laboratory
Flushing and Washington Avenues
Brooklyn, N.Y. 11251

Naval Command Control Communication Laboratory Center

Principal Interests: Research, development, test and evalation in communications, surface and air

surveillance, classification, navigation, oceanography, and shipboard data processing and display.

Address:

Commander
Naval Command Control Communication
Laboratory Center
San Diego, Calif. 92152

Navy Underwater Sound Laboratory

Principal Interests: Research, development, test and evaluation in submarine and infrared communications, sonar and underwater surveillance, classification and countermeasures.

Address:

Commanding Officer and Director
U.S. Navy Underwater Sound Laboratory
Fort Trumbull, New London, Conn. 06320

Boiler and Turbine Laboratory

Principal Interests: Full-scale test and evaluation of ships main propulsion and auxiliary boilers and their components, and main propulsion machinery and maintenance of machinery.

Address:

Commander
Philadelphia Naval Shipyard
(Boiler and Turbine Laboratory)
Philadelphia, Pa. 19112

Naval Radiological Defense Laboratory

Principal Interests: Research, development, test and evaluation in radiation phenomena; chemical, physical, and biological effects of radiation; medical countermeasures; and reclamation and decontamination techniques.

Address:

Commanding Officer and Director
U.S. Naval Radiological Defense Laboratory
San Francisco, Calif. 94135

Navy Mine Defense Laboratory

Principal Interests: Research, development, test and evaluation in mine sweeping, mine hunting, mine clearing, minefield navigation, torpedo countermeasures, and related physical sciences.

Address:

Commanding Officer and Director
U.S. Navy Mine Defense Laboratory
Panama City, Fla. 32402

Department of the Air Force

Management of Air Force research and development is under the direction of the Air Force Systems Command and the Air Force Office of Aerospace Research. The major portion of Air Force research and development is procured through Air Force System Command divisions and its centers.

Space and Missile Systems Organization

Missile Division

Principal Interests: Plans, programs and manages the acquisition of ballistic systems and related equipment and provides for activation of designated ballistic missile sites.

Address:

Space and Missile Systems Organization,
Missile Division
Norton Air Force Base
San Bernardino, Calif. 92409

Space Division

Principal Interests: Plans, programs and manages space systems and related equipment, and is responsible for acquisition of space vehicle systems components, and equipment.

Address:

Space and Missile System Organization,
Space Division
Air Force Unit Post Office
Los Angeles, Calif. 90045

Aerospace Medical Division

Principal Interests: Procurement of research, development and testing in the following areas: Life sciences, human factors, aerospace medicine, biosciences, biomedicine, behavioral sciences, space medicine, biotechnology, human engineering, human resources, aviation medicine, space biology and medical equipment.

Address:

Commander
Aerospace Medical Division
Brooks Air Force Base, Tex. 78235

Electronics Systems Division

Principal Interests: Procurement of research and development relating to command and control systems, and related equipment, systems for data collection, transmission and display, development

work necessary to permit exercise of weapon, command, executive control associated with Air Force aerospace operations.

Address:

Commander
Air Force Electronic Systems Division
L. G. Hanscom Field
Bedford, Mass. 01731

Aeronautical Systems Division

Principal Interests: Development and acquisition of aeronautical systems, sub-systems, their components, and related government-furnished aerospace equipment (GFAE) including, but not limited to, aircraft engines, aircraft wheels and brakes, airborne communication systems, aircraft bombing and navigation systems, aircraft instruments; conventional non-nuclear munition systems; special reconnaissance projects, and mobile land based tactical information processing and interpretation facilities.

Address:

Commander
Air Force Aeronautical Systems Division
Wright-Patterson Air Force Base, Ohio 45433

Systems Engineering Group (an Organizational Element of Aeronautical Systems Division)

Principal Interests: Procurement of exploratory and advanced research and development in the areas of air breathing, electric and advanced propulsion, fuels and lubricants, power generation. Transmission and reception (above 15 GC) molecular electronics, bionics, lasers, vehicle environment, photo materials and optronics, position and motion sensing devices, navigation, guidance, reconnaissance and avionics, communications. Flight dynamics, structures, aerodynamics, aerothermodynamics, control displays and crew station, aerodynamic accelerators and escape, alighting and orbital attachment, airframe and equipment bearing, flight testing techniques. Material sciences metals and ceramics, non-metallic materials, manufacturing technology. Subareas of life support, aerospace medicine and human performance, environmental effects, techniques and equipment for

well being, protection and performance enhancement in subareas of biodynamic forces and energies, altitude thermal, toxic hazards, bionics, human engineering and training. Basic research in selected areas of applied mathematics, organic, inorganic radiation and molecular chemistry, plasma, atomic, theoretical, nuclear and solid state physics, metallurgy and ceramics, heat transfer, energy conversion and fluid dynamics.

Address:

Systems Engineering Group (an organizational element of Aeronautical Systems Division)

Wright-Patterson Air Force Base, Ohio 45433

Air Force Flight Test Center

Principal Interests:

Supports advanced development programs in four principal areas:

- (1) Flight testing and evaluation of all new aircraft planned for inventory production and aerospace research vehicles, including fixed wing, VTOL, STOL, lifting body, and other experimental manned flight vehicles.
- (2) Training experimental and aerospace research pilots.
- (3) Development testing and evaluation of new parachutes (Personnel and Cargo), deceleration and retardation devices, and aerial delivery and recovery systems.
- (4) Development, testing, and evaluation of rocket propulsion systems, including static test of complete engines, and investigation and synthesis of new propellant formulations—liquid, solid, and hybrid. The principal technical organizations and their subsidiary elements conducting R & D activities at the AFFTC are: (1) Directorate of Systems Test (FTT) — Technical Support Divisions (FTTS) (2) USAF Aerospace Research Pilot School (FTR)—Training R & D Division (FTRR) (3) 6511th Test Group (Parachute) (FTN), located at El Centro, California—Engineering Division (FTNE), Instrumentation and Range Operations Division (FTNF) (4) Air Force Rocket Propulsion Laboratory (RPG)—Liquid Rocket Division (RPR), Propellant Division (RPC), Solid Rocket Division (RPM), Technical Support Division (RPF).

Address:

Commander

Air Force Flight Test Center

Edwards Air Force Base, Calif. 93523

Air Force Special Weapons Center

Principal Interests: Test and engineering pertaining to Nuclear Weapon Systems equipment. Specific engineering interests include: Nuclear effects simulation, analysis of nuclear effects and the reaction of equipment to these effects, telemetry, instrumentation, weapons/aircraft flight characteristics, high speed camera techniques. The Center is concerned with test and evaluation on systems, subsystems, and support equipment for nuclear safety, reliability, compatibility, survivability and vulnerability. The Center provides Air Force resources to support AEC/DOD nuclear test operations or training exercises both in the United States and overseas. This support includes providing the staff nucleus for exercises and developing operational concepts and plans.

Address:

Commander

Air Force Special Weapons Center

ATTN : Procurement Division (SWMKB)

Kirtland Air Force Base, N. Mex. 87117

Air Force Weapons Laboratory

Principal Interests: Research in the areas of weapons effects, kill mechanisms, radiation hazards, and delivery techniques. Development and evaluation programs for advanced non-conventional weapon and nuclear power systems integration, nuclear weapon components, training devices, suspension and release systems, ground handling equipment, nuclear safety studies and civil engineering research. The design and development of weapons effects simulation devices and techniques.

Address:

Director

Air Force Weapons Laboratory

Procurement Division (SWMKB)

Kirkland Air Force Base, N. Mex. 87117

Air Force Eastern Test Range

Principal Interests: The Air Force Eastern Test Range Research and Development central procure-

ment program is confined primarily to range test instrumentation. Principal interest are: Test range instrumentation involving radar, trajectory computers and recorders, tracking and target analysis, wire communications, radio communications, programming timing and firing systems, telemetry receiving, data storage, data separation and presentation, optics and telemetry data reduction; develops, maintains and operates the Test Range and provides support for the Department of Defense missile and space programs.

Address:

Commander
Air Force Eastern Test Range
Patrick Air Force Base, Fla. 32925

Air Force Western Test Range

Principal Interests: Test Range instrumentation, procurement within this broad field may require research, development and product engineering, or any combination of these tasks in radar, telemetry, electro-optics, range instrumentation, ships, aircraft, impact location, data handling, data reduction, communications, range and mission control, range safety, weather timing and firing, and frequency control and analysis.

Address:

ATTN: Directorate of Procurement
Western Test Range
Vandenberg AF Base
Lompac, Calif. 93437

Rome Air Development Center

Principal Interests: Surveillance, electronic intelligence, communications, computer and data processing techniques, textual data processing, intelligence extraction from aerial reconnaissance, data presentation, high power electromagnetic generators, receivers, transmission line components, microelectronics applications, reliability and maintainability, survivability, propagation, vulnerability reduction, electronic countermeasures, and electromagnetic weapons.

Address:

Commander
Rome Air Development Center
Griffis Air Force Base, N.Y., N.Y. 13440

Air Proving Ground Center

Principal Interests: Procurement of research, development and test related to the evaluation of guns and other aircraft weapons, new explosives, nonnuclear munitions, bomb warheads, chemical-biological weapons, dispensers, target, and scorers, equipment and the application of equipment or new techniques for counter-insurgency operations, testing of Air Force tactics and techniques, test ranges for aircraft and missile systems testing and an electro-magnetic test environment for ECM and ECCM.

Address:

Commander
Air Force Proving Ground Center
Eglin Air Force Base, Fla. 32542

Air Force Missile Development Center

Principal Interest: Research, development and testing of guided sub-systems and components; Research and Development in the field of human factors including biodynamics and space biology; executes Air Force responsibilities incident to the operation of the proving group, including operation of special instrumentation in direct support of the Center mission.

Address:

Commander
Air Force Missile Development Center
Post Office Box 393
Holloman Air Force Base, N. Mex. 88330

Arnold Engineering Development Center

Principal Interests: Arnold Center is an Air Force Systems Command center with test laboratories in which atmospheric conditions, orbital, space flight, and ballistic conditions can be simulated. The Center functions as a service to the aerospace industry, to educational institutions, and to military and civilian agencies of the Federal Government which are concerned in aerospace research and development. Tests conducted at the Center aid in the development of aircraft, missile, satellite and space programs. Five major laboratories have a total of thirty six testing units, including wind tunnels, high altitude propulsion test cells, space simulation chambers, impact ballistic ranges and research units. Conditions of flight can be simulated ranging from sea level conditions to those encountered in an orbital alti-

tude of approximately three hundreds miles, and velocities from the subsonic to well above Mach 20. Equipment or vehicles tested can range in size from a small-scale model to a full-scale vehicle with its propulsion system installed and operating. Research associated with high temperatures and unique mechanical, electrical, and thermodynamic investigations relating to high-altitudes propulsion test cells, wind tunnels and space simulation chambers is frequently carried out by contracts with industry or educational institutions. Examples of research carried out by contract are: Development of a magnetohydrodynamic generator burner system; a study to develop a hypervelocity impact data recorder; a study of MHD channel flows; a study to develop preliminary design criteria for a space guidance environmental facility; study and develop diagnostic techniques; study of surface catalysis in non-equilibrium flows; a study of a hypervelocity light gas gun augmentation technique; feasibility study of high density shock tunnel augmented by a magnetohydrodynamic accelerator; study to develop criteria for the design of an arc heater mixing chamber; study of leak detection in a large aerospace systems environmental chamber.

Address:

Commander
Arnold Engineering Development Center
Arnold Air Force Station, Tenn. 37389

Research Opportunities

Industrial concerns and non-profit organizations having research capabilities in major scientific fields, and whose personnel include competent scientific investigators may submit basic research proposals to the below office.

The Air Force Office of Scientific Research encourages and supports fundamental research designed to increase understanding of the natural sciences and to stimulate the recognition of new scientific concepts. The primary concern of the AFOSR is with the ability of the investigators and their research preferences. Particularly desired is the original and unique scientific approach likely to clarify or extend understanding of the sciences which are of interest to the principal technical Directorates of AFSOR.

The principal Directorates and major Divisions of AFOSR are: The Directorate of Engi-

nering Sciences (SRE)—Mechanics Divisions (SREM)—Propulsion Division (SREP)—Electronics Division (SREE). The Directorate of Life Sciences (SRL). The Directorate of Chemical Sciences (SRC). Behavioral Sciences Division (SRLB). Biological Sciences Division (SRLA). The Directorate of Physical Sciences (SRP)—General Physics Division (SRPP)—Geophysics Division (SRPG)—Nuclear Physics Division (SRPN)—Solid State Sciences Division (SRPS). The Directorate of Mathematical Sciences (SRM)—Applied Mathematics Division (SRMA)—Mathematics Division (SRMM). The Directorate of Information Sciences (SRI)—Research Division (SRIR).

The AFOSR accepts unsolicited proposals for basic research grants or contracts. Any scientific investigator may make a preliminary inquiry to obtain advice on the degree of interest in his area of research, or may submit a specific research proposal. A proposal should indicate the field of investigation and the objectives sought, describing previous work and related grants or contracts held, if any; in addition, it should outline the approach planned for the research and should include estimates of the time and cost requirements. The principal investigator should be named and an outline of his professional background included.

Each proposal will be evaluated by the appropriate Directorate from the standpoint of its probable value to the Air Force basic research program, of the current availability of funds, and of other relevant factors. In some cases it may be necessary for the Directorate to request additional details prior to rendering a decision as to sponsorship.

Address:

Directorate of Procurement, Air Force
Office of Scientific Research
Arlington, Va. 22209

Air Force Systems Command— Scientific, Technical Liaison Offices (STLO'S)

If you are not located near Headquarters AFSC or an AFSC division or center, it may be possible for you to obtain additional information by visiting a nearby AFSC scientific, technical liaison office located in many cities throughout the United

States. While these representatives of AFSC do no procurement and do not maintain source files, they do have qualified technical personnel available for discussion of your technical capabilities and will provide guidance on AFSC policies and procedures. Such local contacts will minimize the costs and time involved in getting the assistance you may require. Please contact only that AFSC STLO nearest you.

These are the locations of the AFSC scientific, technical liaison offices:

AFSC STLO (SCTL-1)

424 Trapelo Road
Waltham Federal Center
Waltham, Mass. 02154

AFSC STLO (SCTL-2)

O'Hare Office Center
3166 Des Plaines Avenue
Des Plaines, Ill. 60018

AFSC STLO (SCTL-3)

227 Federal Office Building
1240 E 9th Street
Cleveland, Ohio 44199

AFSC STLO (SCTL-4)

500 South Ervay Street
Dallas, Tex. 75201

AFSC STLO (SCTL-5)

111 East 16th Street
New York, N.Y. 10003

AFSC STLO (SCTL-6)

363 South Taaffe Ave., Suite 104
Sunnyvale, Calif. 94086

AFSC STLO (SCTL-7)

c/o The Boeing Company
Seattle, Wash. 98124

AFSC STLO (SCTL-8)

225 Jarvis Street
Toronto, Ontario, Canada 00100

AFSC STLO (SCTL-9)

Dept. of the Navy Munitions Building
Washington, D.C. 20360

AFSC STLO (SCTL-10)

AF Unit Post Office
Los Angeles, Calif. 90045

Army Host Offices

AFSC STLO (SCTL-11)

Building Nbr 314
Aberdeen Proving Ground, Md. 21005

AFSC STLO (SCTL-12)

Building 5101
Edgewood Arsenal, Md. 21010

AFSC STLO (SCTL-14)

U.S. Army Electronics R&D Lab
Fort Monmouth, New Jersey 07703

AFSC STLO (SCTL-15)

Hq Army Munitions Command
Dover, New Jersey 07801

Navy Host Offices

AFSC STLO (SCTL-16)

US Naval Air Development Center
Johnsville, Warminster, Pa. 18944

AFSC STLO (SCTL-17)

Naval Missile Center
P.O. Box 3
Point Mugu, Calif. 93041

AFSC STLO (SCTL-18)

Code 143
Naval Ordnance Test Station
China Lake, Calif. 93557

AFSC STLO (SCTL-19)

Naval Research Lab
Washington, D.C. 20390

Host

NASA Offices

AFSC STLO (SCTL-20)

Ames Research Center (NASA)
Moffett Field, Calif. 94035

AFSC STLO (SCTL-21)

Langley Research Center (NASA)
Langley AFB, Va. 23365

AFSC STLO (SCTL-22)

Manned Spacecraft Center (NASA)
Houston, Tex. 77058

AFSC STLO (SCTL-23)

Lewis Research Center (NASA)
21000 Brookpark Road
Cleveland, Ohio 44135

Host

University Offices

AFSC STLO (SCTL-24)

Massachusetts Institute of Technology
68 Albany Street
Cambridge, Mass. 02139

European Office

AFSC/EFO (SCTL-25)

P.O. Box 340
APO New York 09080

Advanced Research Projects Agency

The Advanced Research Projects Agency (ARPA) was established in February 1958 in response to an urgent need for centralized management of selected research projects which were essential to the security of the United States. As initially established, ARPA was a line agency of the Department of Defense, reporting to the Secretary of Defense. In late 1959, a realignment was effected under which the Director of ARPA is now responsible to the Director of Defense Research and Engineering.

Principal Interests: Projects currently assigned to ARPA may be classified in the following major areas:

- Advanced ballistic missile defense
- Ballistic missile penetration aids research
- Nuclear test detection
- Materials
- Advanced propellant chemistry
- Advanced energy conversion
- Command and control research

Cloud physics
Field conflict technique
Technical aspects of arms control
Behavioral sciences

Additional projects may be assigned from time to time.

As previously indicated, ARPA is an operating agency reporting to the Director of Defense Research and Engineering. ARPA's small management team consists of approximately 60 technical staff members.

Although ARPA was initially responsible for the management of the various space programs, these have all been transferred to the National Aeronautics and Space Administration and to the three military departments.

Address:

Director
Advanced Research Projects Agency
The Pentagon
Washington, D.C. 20301

FEDERAL CIVILIAN AGENCIES WITH MAJOR RESEARCH AND DEVELOPMENT ACTIVITIES

Atomic Energy Commission

Basic research concerning the Atomic Energy Commission is performed for the most part by universities and other nonprofit research organizations on the basis of proposals submitted to and contracts approved by the AEC in Washington and executed by the various AEC operations offices. Those interested in contracts for basic research may obtain "A Guide for Submission of Research Proposals" by contacting the Director, Division of Research regarding the physical sciences; the Director, Division of Biology and Medicine regarding the life sciences; and the Director, Division of Reactor Development, Atomic Energy Commission, Washington, D.C. 20545.

Applied Research and Development are performed to a limited extent by private concerns in their own facilities pursuant to contracts and subcontracts with the various AEC operations offices and management contractors. Most of this type of work is performed by the contractors that operate AEC research laboratories, and other research facilities. Those interested in this activity should contact the AEC operations offices listed below.

Albuquerque Operations Office

Principal Interests: Research, development, testing and production in the field of atomic weapons.

Address:

Manager, Albuquerque Operations Office
U.S. Atomic Energy Commission
Sandi Base—P.O. Box 5400
Albuquerque, N. Mex. 87115

Brookhaven Operations Office

Principal Interests: Basic research in the physical and life sciences, including research into the structure and properties of matter (solids, liquids

and gases); the physical, chemical and biological effects of radiation; radioisotopes and other nuclear tools; and development of nuclear technology.

Address:

Manager, Brookhaven Operations Office
U.S. Atomic Energy Commission
Upton, Long Island, N.Y. 11973

Chicago Operations Office

Principal Interests: Research and development programs and incidental engineering and construction; also programs involving fundamental research and the training of younger scientists. It gives particular attention to chemical and metallurgical problems such as the development of processes for the production of rare metals and the preparation of crucible materials for the melting and casting of metals.

Address:

Manager, Chicago Operations Office
U.S. Atomic Energy Commission
P.O. Box 57
Lemont, Ill. 60439

Idaho Operations Office

Principal Interests: Testing of various types of nuclear reactors and allied plants; research and development in fuels, materials, and reactor physics.

Address:

Manager, Idaho Operations Office
U.S. Atomic Energy Commission
P.O. Box 2108
Idaho Falls, Idaho 83401

New York Operations Office

Principal Interests: Administrative responsibility for research and development such as the reac-

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

tor, cyclotron and cosmotron equipments project which is in use for research in both the physical sciences and biology and medicine.

Address:

Manager, New York Operations Office
U.S. Atomic Energy Commission
376 Hudson Street
New York, N.Y. 10014

Oak Ridge Operations Office

Principal Interests: Concerned primarily with the receiving and processing of uranium concentrates and other source and new materials into feed materials and the further processing of uranium feed materials into the special nuclear material, U235.

Address:

Manager, Oak Ridge Operations Office
U.S. Atomic Energy Commission
P.O. Box E
Oak Ridge, Tenn. 37831

Pittsburgh Naval Reactor Operations Office

Principal Interests: Research and development on reactors for propulsion of naval vessels, including submarines and surface ships.

Address:

Manager, Pittsburgh Naval Reactor Operations Office
U.S. Atomic Energy Commission
P.O. Box 1105
Pittsburgh, Pa. 15230

Richland Operations Office

Principal Interests: Concerned primarily with the processing of uranium feed material into the special nuclear material, plutonium.

National Aeronautics and Space Administration

Research and Development contracting is the most important phase of National Aeronautics Space Administration operations, accounting for more than two dollars out of every three in current budgets. Research and development funds are divided into major programs and projects such as launch vehicles and propulsion programs with a

Address:

Manager, Richland Operations Office
U.S. Atomic Energy Commission
P.O. Box 550
Richland, Wash. 99352

San Francisco Operations Office

Principal Interests: Research and development in a variety of scientific fields with primary emphasis on reactors, accelerators, and testing in the field of atomic weapons.

Address:

Manager, San Francisco Operations Office
U.S. Atomic Energy Commission
2111 Bancroft Way
Berkeley, Calif. 94704

Savannah River Operations Office

Principal Interests: Concerned primarily with the processing of uranium feed material into the special nuclear material, plutonium, as well as the production of other special products.

Address:

Manager, Savannah River Operations Office
U.S. Atomic Energy Commission
P.O. Box A
Aiken, S.C. 29802

Schenectady Operations Office

Principal Interests: Research, development, and design programs on nuclear reactor powerplants for the propulsion of naval vessels and on the development of related equipment.

Address:

Manager, Schenectady Operations Office
U.S. Atomic Energy Commission
P.O. Box 1069
Schenectady, N.Y. 12301

goal of greater simplicity, reliability and payload capability; the manned space flight program, geophysics and astronomy programs for the gathering of greater and more accurate knowledge in these fields; applications programs for the perfection of communication systems and a host of other projects covering the many problems involved in aero-

space/medicine, bioscience, nuclear systems, lunar, and planetary programs.

Headquarters Procurement Division

Principal Interests: The Headquarters Contracts Division of the Office of Organization and Management, NASA Headquarters, is responsible for planning, negotiating, awarding, and administering contracts based on procurement requirements initiated by the Headquarters Offices. Such requirements include, but are not limited to: reliability studies, the initial phase of research and development projects, recruitment advertising services, mobile lecture-demonstration units, exhibits, motion picture services, management analysis surveys, and various consultant and professional services.

Address:

Procurement Officer
National Aeronautics and Space
Administration
Headquarters Contracts Division
Washington, D.C. 20546

Most NASA business flows to contractors directly from NASA installations outside of Washington, since most general procurement and much research and development contracting is decentralized for maximum efficiency in technical control. These installations are: Ames Research Center, Electronics Research Center, Flight Research Center, Goddard Space Flight Center, Jet Propulsion Laboratory, John F. Kennedy Space Center, Langley Research Center, Lewis Research Center, Manned Spacecraft Center, Marshall Space Flight Center, NASA Pasadena Office, Space Nuclear Propulsion Offices, Wallops Station.

Ames Research Center

Principal Interests: The research effort is directed at studies leading to an understanding of a wide range of phenomena in the physical sciences, the space sciences, and the life sciences. Research in the physical sciences include studies in entry and environmental physics, guidance and control systems, and aeronautics. The work in entry and environmental physics includes basic studies of the physics of high-temperature gases; the stability, control, and performance of a wide range of

spacecraft configurations; and of materials and structures for spacecraft. In the area of gas physics, particular emphasis is placed on problems associated with flight into earth and other planetary atmospheres. Research in the space sciences including geophysics studies in the fields of solar physics, planetary environments, and geophysics. The work covers studies pertaining to magnetic fields and plasmas in space, studies to determine the composition and structure of planetary atmospheres, and studies in astrophysical magnetohydrodynamics. Research in the life sciences includes three major areas; basic research in the physiological and behavioral sciences concerned with obtaining a basic understanding of the effects of terrestrial and extraterrestrial environments and of space flight stresses upon living organisms; studies in exobiology oriented toward the prediction, detection, and study of extraterrestrial life forms; and research in the human factors aspects of the relationships between man and the machines which will transport him into space and support him during lunar and planetary exploration.

Address:

Director
National Aeronautics and Space
Administration
Ames Research Center
Moffet Field, Calif. 94035

Flight Research Center

Principal Interests: The mission of the Flight Center is the conduct of research on flight, and the problems of manned flight, both within and outside the atmosphere. This work includes effort on problems of takeoff and landing, low-speed flight, supersonic and hypersonic flight, and re-entry in order to verify predicted characteristics and to identify unexpected problems in actual flight. The Center also maintains a program of continual improvements on systems and sensors used in tracking and data acquisition.

Address:

Director
National Aeronautics and Space
Administration
Flight Research Center
P.O. Box 273
Edwards, Calif. 93523

Goddard Space Flight Center

Principal Interests: The Goddard Space Flight Center has been assigned the prime responsibility within NASA for the management of applications satellite projects, unmanned scientific satellite projects, and worldwide NASA tracking and data acquisition operations. Currently, three meteorological satellites projects are underway; the TIROS, NIMBUS (for research and development purposes), and the NIMBUS operational system for the Weather Bureau. In addition to the management of these three projects, Goddard is conducting advanced research on new and improved components for these satellite systems and performing studies on future meteorological satellites.

Address:

Director
 National Aeronautics and Space
 Administration
 Goddard Space Flight Center
 Greenbelt, Md. 20771

Jet Propulsion Laboratory

Principal Interests: The Jet Propulsion Laboratory is a Government-owned research and development facility, operated for NASA by the California Institute of Technology. The Laboratory carries out research programs and flight projects for NASA, and conceives and executes advanced development and experimental engineering investigation to further the technology required for the Nation's space program. The primary emphasis of the Laboratory's effort has been, and is, on the carrying out of lunar, planetary, and deep-space unmanned scientific missions. Supporting research and advanced development programs are conducted in the fields of physics, chemistry, aerodynamics mathematics, and space sciences.

Address:

Director
 Jet Propulsion Laboratory
 4800 Oak Grove Drive
 Pasadena, Calif. 91103

Langley Research Center

Principal Interests: Langley Research Center conducts a scientific investigation on a broad scale in the areas of vehicle configurations, materials

and structures, and the mechanics of flight; and concentrates on the problems of space travel and reentry, application of new materials, supersonic and hypersonic flight, and other areas to provide the technical background necessary for the accomplishment of NASA aeronautical and space missions. Attention is given to the study of systems and techniques for the recovery of vehicles returning to the earth's atmosphere from a space mission. Aeronautical research is directed toward improvement in the performance, safety, and utility of airborne flight, including the proposed supersonic transport, supersonic military aircraft, helicopters, and low-speed airplanes.

Address:

Director
 National Aeronautics and Space
 Administration
 Langley Research Center
 Langley Station
 Hampton, Va. 23365

Launch Operation Center

Principal Interests: Overall planning and supervision of the integration, test, checkout, and launch of NASA space vehicle systems at the Atlantic Missile Range (AMR) and Merritt Island, and provide support in general, technical, administrative, and facilities areas, such as; administrative and technical support services (public relations, visitors control services, community and industrial relations; and legal, security, purchasing and contracting transportation, and financial management) for all NASA elements located in the area.

Address:

Director
 John F. Kennedy Space Center
 Kennedy Space Center, Fla. 32899

Lewis Research Center

Principal Interests: The primary mission of the Lewis Research Center is research and development in the areas of advanced propulsion and space power generation. This includes work on the high-energy chemical, nuclear, and electric rocket engines and on space power systems for converting chemical, nuclear, and solar energy electricity. In support of these areas, basic and

applied research is conducted in-house on materials and metallurgy; cryogenic and liquid-metal heat-transfer fluids; pumps and turbines; combustion processes, propellants, tankage, injectors, chambers, and nozzles; system control dynamics; plasmas and magnetohydrodynamics; space meteoroid damage and zero-gravity effects; and on turboelectric, thermoelectrical, and thermionic energy-conversion systems.

Address:

Director
National Aeronautics and Space
Administration
Lewis Research Center
21000 Brookpark Road
Cleveland, Ohio 44135

Manned Spacecraft Center

Principal Interests: The Manned Spacecraft Center has as its primary mission the development of spacecraft for manned space flight programs and the conduct of manned flight operations. Specific responsibilities include:

The conduct of study, analysis, and systems evaluation of present and advanced projects, identifying required systems capabilities, performance, load, and environmental aspects of the mission; advanced research in the biological, biomedical, and aeromedical aspects of manned space flight with emphasis on life support systems and crew equipment required in support of manned flight missions; and applied research into the problems of the lunar and space environments, acquiring basic physical data and knowledge that bear upon the safe performance of manned space flight missions.

Address:

Director
National Aeronautics and Space
Administration
Manned Spacecraft Center
Houston, Tex. 77058

Marshall Space Flight Center

Principal Interests: The primary mission of the Marshall Space Flight Center (MSFC) is to develop and provide launch vehicle and space transportation systems to meet the space program requirements. This responsibility begins with the

conception and extends through all phases of design, fabrication, testing, and production, to the integration and coordination of launching the vehicle, and subsequent space operations and analysis. Performs advanced studies and research in the general fields of astronautics.

Other activities include basic research, product improvement, and the advancement of launch vehicle technology, particularly in the areas of multi-engine and stage vehicles, and nuclear and electrical propulsion. Marshall's management operations include the plants at Huntsville, Ala.; the Mississippi Test Facility, the Michoud Plant, and at several contractor facilities. The mission of the Mississippi Test Facility is the static test of large vehicle stages and systems. The mission of the Michoud Plant is the manufacture of stages for the Saturn family of launch vehicles. Plant operation is conducted by various companies under contract to NASA.

Address:

Director
National Aeronautics and Space
Administration
Marshall Space Flight Center
Huntsville, Ala. 35812

Electronics Research Center

Principal Interest: The Electronics Research Center is responsible for conducting basic and applied research to provide and maintain an inventory of the electronic concepts, procedures, and techniques in support of NASA programs; developing and recommending procedures and criteria for accepting highly reliable and standardized electronic techniques and components; developing and maintaining a unified NASA program of environmental testing methods and procedures for electronic systems, subsystems and components; developing and maintaining educational and research cooperation with educational institutions and industries on aeronautical and space electronics; developing forecasts of progress in basic and applied NASA electronic research, particularly as such forecasts influence future NASA flight missions; disseminating scientific and technical information resulting from research activities; and planning, developing and operating such research, testing and support facilities as are required.

Address:

Director
 National Aeronautics and Space
 Administration
 Electronics Research Center
 575 Technology Square
 Cambridge, Mass. 02139

Space Nuclear Propulsion Offices

Principal Interests: The Space Nuclear Propulsion Offices (SNPO) are joint offices of the NASA and the AEC. SNPO's were established to assure the formulation and execution of an integrated development program for nuclear rockets which fulfills the responsibilities of both agencies. SNPOs have the primary objective of establishing the basic technology, developing, and providing qualified nuclear rocket engines for accomplishing operational missions in advance launch vehicles. Implementation of this program will encompass basic research on reactors, engine systems, and vehicles; development of practical heat-exchanger-type reactors, engines, and stages; development of reliability; and the operation of nuclear-powered stages in launch vehicles for flight test purposes.

Address:

Director
 Space Nuclear Propulsion Office
 National Aeronautics & Space Administration
 Washington, D.C. 20546

Director

National Aeronautics & Space Administration
 Space Nuclear Propulsion Office—Cleveland
 Lewis Research Center
 21000 Brookpark Road
 Cleveland, Ohio 44135

Director

National Aeronautics & Space Administration
 Space Nuclear Propulsion Office—
 Albuquerque
 P.O. Box 5400
 Albuquerque, N. Mex. 87115

Director

National Aeronautics & Space Administration
 Space Nuclear Propulsion Office—Nevada
 Nuclear Rocket Development Station
 P.O. Box 1
 Jackass Flats, Nev. 89023

Wallops Station

Principal Interests: The mission of Wallops Station, established in 1945, is to conduct non-orbital and orbital experiments with rocket-propelled vehicles carrying payloads used for aeronautical and space research. These payloads may be in the form of reentry or space flight models, models of manned-space capsules, ionized layer data-gathering and other sounding devices, or any other space research devices capable of being carried by the vehicles up to Scout size which Wallops Station can launch. Occasionally, research is conducted at Wallops Station with free-fall instrumented payloads or models dropped from aircraft, or launched from aircraft and ships.

Address:

Director
 National Aeronautics and Space
 Administration
 Wallops Station
 Wallops Island, Va. 23337

NASA—Pasadena Office

Principal Interests: The NASA—Pasadena Office administers NASA contracts, performs technical monitoring and liaison on NASA contracts or projects and advises Headquarters on technical developments and capabilities in the area. The Office performs associated security, legal and patent services and auditing.

Address:

Director
 National Aeronautics and Space
 Administration
 Pasadena Office
 Pasadena, Calif. 91103

Federal Aviation Administration

The research and development program of the Federal Aviation Administration is carried out by the Systems Research and Development Service, Aircraft Development Service, and the Office of

Aviation Medicine. A subordinate unit of the Systems Research and Development Service is located near Atlantic City, New Jersey, and serves as the FAA's National Aviation Facilities Experi-

mental Center, where research, experimentation, and evaluation of projects is conducted. Under the systems engineering process, scientific method and logic is applied to the design, development, and continuing improvement of the Nation's common civil/military air transportation system. Also, research and development in connection with the Supersonic Transport Program is administered by the Office of Supersonic Transport Development.

Systems Research and Development Service

Principal Interests: Design for the National Airspace System and research and development activities associated with programs pertaining to air traffic control, air navigation, communications, airports and aviation weather.

Address:

Director, Systems Research and Development Service
Federal Aviation Administration
Washington, D.C. 20590

National Aviation Facilities Experimental Center

Principal Interests: Conducts all research, experimentation, testing and evaluation of aviation research and development programs under the direction of the Systems Research and Development Service.

Address:

Manager, National Aviation Facilities Experimental Center
Atlantic City, N.J. 08405

Aircraft Development Service

Principal Interests: Programs for the improvement of aeronautics—airframe structures and materials, aircraft flight systems, propulsion—and in aircraft engineering and safety, including airborne devices, equipment, and systems other than navigation and communications. Special emphasis is placed on the development of simplified, low cost, func-

tional general aviation cockpit instrumentation and control systems. Also conducts close liaison with the Department of Defense on the development of V/STOL and other subsonic aircraft for application to civil requirements.

Address:

Director, Aircraft Development Service
Federal Aviation Administration
Washington, D.C. 20590

Office of Aviation Medicine

Principal Interests: Conducts a medical research program that deals in clinical medicine and human factors. The program is directed toward the solution of current and anticipated problems in the medical aspects of aviation.

Address:

Federal Air Surgeon
Office of Aviation Medicine
Federal Aviation Administration
Washington, D.C. 20590

Office of Supersonic Development

Principal Interests: Development of a supersonic transport airplane.

Address:

Director of Supersonic Transport Development
Federal Aviation Administration
Washington, D.C. 20590

Geological Survey

Principal Interests: Fundamental research in topography, geochemistry, hydrology, geology, geophysics, related sciences, and new techniques and methods for appraising and conserving minerals and water.

Address:

U.S. Department of the Interior
Geological Survey
18th and F Streets, N.W.
Washington, D.C. 20242

Department of Commerce

The National Bureau of Standards, Patent Office, Maritime Administration, Weather Bureau, Coast and Geodetic Survey, and Bureau of Public

Roads, with minor exceptions, carry out the research and development programs of the Department of Commerce.

National Bureau of Standards

Principal Interests: The National Bureau of Standards conducts research in the fields of electricity and electronics, optics, and meteorology, heat, atomic and radiation physics, applied mathematics, data processing systems, basic instrumentation, mechanics, building technology, weights and measures, chemistry, organic and fibrous materials, metallurgy, and mineral products. A major portion of this work is done for other Government agencies. Most of it is in-house research and consists of testing and the maintenance of standards.

Address:

Director, National Bureau of Standards
Department of Commerce
Connecticut Avenue and Van Ness Street,
N.W.
Washington, D.C. 20234

Patent Office

Principal Interests: The Office of Research and Development of the Patent Office conducts research on the organization of information for novelty searching and develops retrieval systems, including computer-assisted systems, for the use of information by Patent Office examiners and the scientific community.

Address:

Commissioner of Patents
Patent Office
Department of Commerce
14th and Constitution Avenue, N.W.
Washington, D.C. 20231

Maritime Administration

Principal Interests: The research and development effort of the Maritime Administration includes transportation systems analyses, cargo handling, development and utilization of new ship designs, marine transportation systems, advanced propulsion concepts, and ship management techniques.

Address:

Maritime Administrator
Maritime Administration
Department of Commerce
New GAO Building
5th and G Streets, N.W.
Washington, D.C. 20235

Environmental Science Services Administration

Principal Interests: The Environmental Science Services Administration conducts research in many areas of the agencies assigned tasks to describe, understand, and predict the state of the oceans, the state of the lower and upper atmosphere, and the size and shape of the earth. This research is conducted in ESSA's laboratories and under contract.

The major services and research elements in the Environmental Science Services Administration are:

1. Environmental Data Service
2. Weather Bureau
3. Institutes for Environmental Research
4. Coast and Geodetic Survey
5. National Environmental Satellite Center

The ENVIRONMENTAL DATA SERVICE is established to provide for the suitable collection, processing, archiving, publication, dissemination and recall of environmental data and to guide research activities pertinent to the improvement of such services.

The WEATHER BUREAU, provides the National Weather Service, reporting the weather of the United States and its possessions, and issuing forecasts and warnings of weather and flood conditions.

The INSTITUTES FOR ENVIRONMENTAL RESEARCH have the objective to conduct an integrated research program relating to the oceans and inland waters, the lower and upper atmosphere, the space environment and the earth to increase understanding of man's geophysical environment. The Institutes also provide the major ESSA service components with the research information they require to improve their service.

The COAST AND GEODETIC SURVEY provides charts for safe navigation of marine and air commerce, provides for the national requirements for a basic network of geodetic control, provides basic data in several fields of earth sciences to meet the needs of engineering, scientific, commercial, industrial and defense groups. In accomplishing the above tasks the C&GS conducts science-oriented research in the earth sciences and attendant geophysical phenomena, and also guides applied research and development in cartography,

instrumentation, survey methods, and processing and analytical techniques.

The NATIONAL ENVIRONMENTAL SATELLITE CENTER provides observations of the environment by means of satellites, establishes and operates a national environmental satellite system, conducts satellite systems engineering and research. Emphasis is placed in the data handling and processing of satellite generated data as the actual launching, spacecraft, and launch vehicles are NASA responsibilities.

Address:

Office of Science and Engineering
Environmental Science Services
Administration
6010 Executive Boulevard
Rockville, Md. 20852.

Bureau of Public Roads

Principal Interests: The Bureau of Public Roads has a broad continuing program of research authorized by Congress in connection with the Bureau's mission to administer the Federal aid highway program. The Bureau's interest in research relative to roads and highways includes physical structure, hydraulic problems, photogrammetry, and traffic safety.

Address:

Federal Highway Administrator
Bureau of Public Roads
Department of Commerce
14th and Constitution Avenue, N.W.
Washington, D.C. 20230

Department of Agriculture

The research programs of the Department of Agriculture are handled by the Agricultural Research Service, Forest Service, Economics Research Service, Farmers Cooperative Service and Foreign Agricultural Service.

Agricultural Research Service

Principal Interests: Physical, biological, chemical and engineering research, includes the 11,000 acre Agricultural Research Center, Beltsville, Maryland. Clothing and housing research, household economics, and human nutrition research. New and improved industrial and food products and processing methods for agricultural commodities. Soil and water, crop, animal husbandry, entomology and agricultural engineering research.

Address:

Administrator, Agricultural Research Service
14th and Independence Avenue, S.W.
Washington, D.C. 20250

Forest Service

Principal Interests: Timber and forested watershed and rangeland management and protection, forest product utilization and marketing.

Address:

Chief, Forest Service
Department of Agriculture
14th and Independence Avenue, S.W.
Washington, D.C. 20250

Economics Research Service

Principal Interests: Farm management, supply, demand, and price analysis, market development and market organization and efficiency.

Address:

Administrator, Economics Research Service
Department of Agriculture
14th and Independence Avenue, S.W.
Washington, D.C. 20250

Foreign Agricultural Service

Principal Interests: Efficient operation of farmers cooperatives.

Address:

Administrator, Farmers Cooperative Service
Department of Agriculture
14th and Independence Avenue, S.W.
Washington, D.C. 20250

Foreign Agricultural Service

Principal Interests: Studies of competition in foreign markets and from foreign producing areas:

Address:

Administrator, Foreign Agricultural Service
Department of Agriculture
14th and Independence Avenue, S.W.
Washington, D.C. 20250

Department of Agriculture Library

Principal Interests: Access to the resources of the library is provided not only through direct service in Washington but also through printed lists which notify the public concerning publications acquired by the library.

Address:

Department of Agriculture Library
14th and Independence Avenue, S.W.
Washington, D.C. 20250

Department of Health, Education, and Welfare

Contracting with educational institutions, non-profit organizations and industrial concerns for research services and development work is an important aspect of program accomplishment in the Department of Health, Education, and Welfare. The major portion of the Department's total research and development procurement program is conducted by the several agencies of the Public Health Service as listed below. Also, Office of Education is vigorously pursuing a program to improve the quality of education in which contracting for research, development and evaluation plays a significant role.

Public Health Service

Bureau of Health Services

Principal Interests: Research into administration and delivery of personal health services, covering all aspects of comprehensive personal health services from prevention to rehabilitation, for all population groups.

Address:

Director
Bureau of Health Services
Willste Building, Room 600A
7915 Eastern Avenue
Silver Spring, Md. 20910

Bureau of Disease Prevention and Environmental Control

Principal Interests: Development of data and information, methodology and systems, scientific and technical manpower needed for, and fundamentally related to, the prevention and control of (1) communicable diseases, (2) chronic diseases, (3) environmental hazards, (4) accidental death and injury, and other activities which will enhance the Nation's epidemiological capability, increase the ability to relate changing conditions and factors to morbidity and mortality forecasting, and

tions acquired by the library.

Address:

Department of Agriculture Library
14th and Independence Avenue, S.W.
Washington, D.C. 20250

formulate the basis for restoring, improving and maintaining the healthful quality of man's environment.

Address:

Director
Bureau of Diseases Prevention and
Environmental Control
HEW South Building, Room 2006
Washington, D.C. 20201

National Center for Health Statistics

Principal Interests: Development of improved and new programs for conducting special studies, field pre-tests of questionnaire and other data gathering devices, and the planning of complex tabulations.

Address:

Director
National Center for Health Statistics
HEW South Building, Room 3006
Washington, D.C. 20201

National Library of Medicine

Principal Interests: Automated document-handling (library) network; automated information-handling networks; system management through system monitoring; system adaptivity, controlled feedback and application of control system procedures; experimentation with communications systems in controlled environments—observation and evaluation of operational systems so as to extract system parameters, system inadequacies, and component coupling; query languages, information bank, and document collections structured to permit direct communication between the biomedical professional and the system; medical problem solving with automated assistance; application of advanced techniques to specific needs of the biomedical professional, e.g., color in communication, remote browsing, and high resolution material

transmission; and education through automated information and communications networks.

Address:

Director
National Library of Medicine
Room M-101
Bethesda, Md. 20014

National Institutes of Health

Principal Interests: Research in kidney diseases, heart-assist devices, and cancer.

Address:

Director
National Institutes of Health
Building 1, Room 124
Bethesda, Md. 20014

Bureau of Health Manpower

Principal Interests: Systems for utilizing manpower for medical care and health services.

Address:

Director
Bureau of Health Manpower
Room 1105
Ballston Center Tower #1
800 N. Quincy Street
Arlington, Va. 22203

Office of Education

Principal Interests: Research, development, and evaluation of electronic teaching equipment and other educational devices. Research and development in the field of educational methodology and techniques.

Address:

Commissioner of Education
Office of Education
Department of Health, Education,
and Welfare
Washington, D.C. 20202

Department of Housing and Urban Development

Principal Interests: Research, development and evaluation of new technology leading to the solution of problems of housing, urban development and mass transportation.

Address:

Director, Office of Urban Technology
Department of Housing and Urban
Development
Washington, D.C. 20401

Post Office Department

The Post Office Department is primarily interested in developing automatic devices to aid in post office operations. With minor exceptions all research and development contracts are executed and administered by the Office of Research and Engineering.

equipment, vehicles and vehicle components, and packing methods.

Address:

Assistant Postmaster General
Bureau of Research and Engineering
Post Office Department
12th and Pennsylvania Avenue, N.W.
Washington, D.C. 20260

Office of Research and Engineering

Principal Interests: Research, development, and evaluation of new mail processing machinery and

GUIDE FOR VOLUNTARY UNSOLICITED PROPOSALS

Any organization or person may suggest a research and development effort. Before submitting an unsolicited proposal, the proponent should make a thorough search of all technical reports, patents and other data pertaining to the subject in order to become thoroughly familiar with the "state of the art".

Usually the source of voluntary proposals should be technically qualified to carry through any program which they may suggest in the event it is favorably considered by the technical services. However, the technical services do not consider the supporting facilities of the organization or individual submitting a proposal in determining the technical merit of the proposal and its potential usefulness.

Voluntary proposals to perform research and development are distinguished from proposals which are requested by the various agencies from qualified sources. These latter proposals are prepared in response to a "Request for Proposal" which usually contains a clear statement of the objective on which the agency invites qualified sources to bid. Voluntary proposals are not solicited and therefore, have not been programmed by the agency as to funds and other necessary formal procedures used in the conduct of research.

There is no specific form required for submitting unsolicited R & D proposals. But, here are some of the items you should include:

Name and address of your organization.

Number of employees, including totals and qualifications of technical personnel.

Brief description of your facilities, particularly those which would be used in your proposed R&D effort.

Brief outline of your previous work and experience in the field.

If available, you should include a descriptive brochure and financial statement.

Title of your proposed research and name of the principal investigator(s).

A brief abstract of the proposed project.

A suggestion as to the proposed starting and completion dates.

An outline of your proposed budget, including information on equipment, facility and personnel requirements.

Inventions are not considered to be in the same category as voluntary proposals which outline a research and development effort. Inventions, suggestions, articles, ideas, mechanical devices, or other known facts which are believed to afford an improvement in known machines, weapons, equipments, arts, methods, or systems, are the province of the National Inventors Council, U.S. Department of Commerce, Washington, D.C. 20230. The National Inventors Council may forward meritorious inventions to all the military services concerned for evaluation. The National Inventors Council determines whether patented or unpatented inventions have possible military applications and obtains evaluations which are forwarded to the submitter.

Only information contained in a proposal which concerns a basic or major improvement and which is considered to be of a proprietary nature should be clearly identified. A differentiation should be made between proprietary data and patent data when one or both are contained in a proposal. Each of the military agencies has a form or format for a "Policy Agreement for the Evaluation of Articles or Disclosures" which is a statement of the terms under which voluntary unsolicited proposals are accepted. It should be read carefully and fully understood by all who submit such proposals.

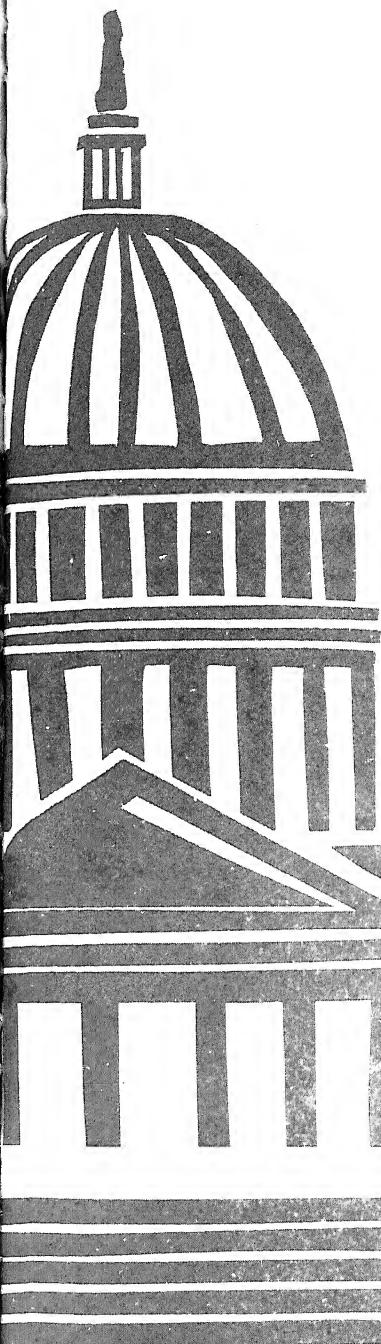
SUGGESTIONS FOR BROCHURE

Every business firm interested in obtaining research and development contracts from the Government should prepare the R&D brochure covering its organization which will present the firm in its most favorable light. Whenever you contact a Government procurement office, you should make available to contracting and technical personnel at that office a copy of this brochure. An R&D brochure is not the same as a general sales brochure. Brochures may range from a simple mimeographed form or, if money and time permits, to a lithographed booklet in multicolors with illustrative art displays. SBA suggests the brochure incorporate the following minimum items:

1. Name of organization, and address.
2. R&D work now being performed.
3. Major R&D work completed.
4. Type of work for which firm is especially qualified.
5. List Government contracts previously undertaken and show the technical service, contact number, and brief description of work done, both as prime and subcontractor.
6. a. Names and qualifications of scientists employed full time. (Include information as to education, professional experience, and papers published.)
b. Names and business connections of consultants and other scientific personnel available to the company.
- c. Names and qualifications of other key personnel to be used on R&D work.

7. a. Description of plant.
- b. List of production equipment.
- c. Laboratory and test equipment.
- d. Special R&D equipment.
8. Current financial statements.
9. Security Clearance—if you have had a “Facility Clearance” from the Army, Navy, Air Force, or other Government agency, state which. Security regulations are important and should be studied and observed with utmost care. Procedures and requirements are set in the “Industrial Security Manual for Safeguarding Classified Information.” This document is available for 30 cents from the Superintendent of Documents, Government Printing Office Washington, D.C. 20401

Essentially obtaining a research and development contract boils down to a *selling job to the technical personnel* in the applicable Government agency. The Small Business Specialist at each procuring agency, arsenal, or laboratory should be used as an entree to these technical personnel as they have your best interests at heart. Experienced firms report that a well thought out brochure readily establishes their basic qualifications and the field of endeavor. (It is suggested that, if you have not already done so, a copy of this brochure be made available to your nearest SBA Regional Office.)



GOVERNMENT PURCHASING SPECIFICATIONS:

Where to obtain them—
Pointers on their use

PART VI



THE GOVERNMENT'S SYSTEM OF SPECIFICATIONS

The Federal Government has exact specifications for most of the products and services it buys repeatedly. These are in the form of written descriptions, drawings, prints, commercial designations, industry standards, and other descriptive references. Since they are based in part on industrial and technical society standards and specifications, they meet the requirements of the Government without lessening the ability of business concerns to furnish the needed items or services.

Government specifications are divided into two groups—Federal and military. Federal specifications cover the very large number of "civilian-type" items and services purchased. Military specifications describe the items and services purchased by the Department of Defense and its many subdivisions and by other agencies concerned with national defense. Some items used by the Defense Department, particularly ones with no special military characteristics, can be described satisfactorily by Federal specifications, and in purchasing these items the Department uses Federal rather than military specifications.

Federal Specifications

Federal specifications cover materials, products or services used by, or for potential use of, two or more Federal agencies, or new items of potential general application. They are issued by the General Services Administration and are mandatory for use by all Federal agencies. The Director, Standardization Division, Federal Supply Service, General Services Administration, administers the specifications.

Federal specifications are identified by a symbol composed of three parts:

1. A single, double, or triple letter which indicates the Federal "Group for Procurement."

2. A single letter that is the first letter of the first word in the title.
3. A serial number which is determined by the location of the title in the alphabetical classification system.

Examples of identifying symbols of Federal specifications:

H-B-695—Brushes, varnish, flat

FF-P-101—Padlocks

GGG-C-775—Cutters, milling

Revisions: A revision of Federal specification supersedes entirely the previous issue, including any amendments to it. Revisions of Federal specifications are indicated by the addition of a lower case letter—"a", "b", "c", etc.,—to a symbol in the upper right corner of the first page. Revisions also show superseding data.

Example:

QQ-B-746a
8 October 1950

Superseding
Fed. Spec. QQ-B-746
June 5, 1934

Amendments: Amendments cover brief changes in Federal specifications. They bear the specification symbol, the amendment number, and the date of the amendment in the upper right corner. Only one amendment is ever in effect for a specification since an amendment always supersedes or includes changes from any previous amendments. Superseding amendments are indicated by the figure "2," "3," etc.

Example:

J-C-103
Amendment—5
27 May 1948

Superseding
Amendment—4
April 4, 1947

Military Specifications

Military specifications (formerly known as joint Army-Navy specifications) cover items or services that are intrinsically military in character, commercial items modified to meet special requirements of the military, or commercial items with no present or potential use by Federal agencies other than military. These specifications were originally issued under the auspices of the Joint Army-Navy Specifications Board as "JAN" specifications. The series has been continued in the same numerical sequence, with the prefix "MIL" replacing the "JAN". As the few remaining "JAN" specifications are revised, the prefixes will be changed to "MIL", although the specification numbers will remain the same.

Military specifications are identified by a symbol composed of three parts:

1. The letters "MIL".
2. A single letter that is the first letter of the first word in the title.
3. A nonsignificant serial number.

Example: MIL-M-2241-Microscope, Stage Micrometer.

Revisions: A revision of a military specification supersedes entirely the previous issue, including any amendments to it. A revision is indicated by the addition of a capital letter following the symbol in the upper right corner of the first page and preceding any suffix. The first revision is indicated by the letter "A", and succeeding revisions are indicated by the other letters in alphabetical sequence except that the letters "I", "O", and "S" are not used.

Examples:

MIL-M-3138A

22 May 1951

Superseding

MIL-M-3138

21 February 1950

MIL-T-15294B (Ships)

8 December 1952

Superseding

MIL-T-15294A (Ships)

1 September 1950

Amendments: Brief changes in a military specification are printed in the form of an amendment. Amendments bear the specification symbol, the

amendment number, and the date in the upper right corner. Only one amendment is ever in effect for an individual specification. Subsequent amendments include the pertinent changes from the previous amendments. Superseding amendments are indicated by the figures "2," "3," etc.

Indexes to Specifications and Standards

Two indexes to Government specifications are available: "Index of Federal Specifications and Standards," and "Department of Defense Index of Specifications and Standards."

An index can help the small business owner identify specifications and standards for products and services he believes he may be able to supply to the Government, and may suggest items that had not occurred to him. The index will tell where to write for copies of specifications and standards, including copies of those identified only by number in bid sets.

The first half of the Index of Federal Specifications and Standards lists documents alphabetically, and tells the price at which each may be purchased from the General Services Administration. The second half lists Federal documents by procurement groups. It also lists canceled or superseded documents and gives related information. It is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The price is \$1.75, which includes cumulative supplements as issued during the year. There is a 50-cent additional charge for foreign mailing.

The Department of Defense Index of Specifications and Standards has three separate parts: an alphabetical listing; numerical listing; and a Federal supply classification listing.

The index lists the unclassified Federal military and departmental documents used by the Defense Department. It is a consolidation of the separate indexes formerly published by the three military departments.

This single index will greatly simplify the search for available design, engineering and procurement data. Copies may be purchased from the Superintendent of Documents. Annual subscription for the alphabetical and numerical listings is \$20.00 (foreign mailing, \$5.00 additional). The

Federal Supply Classification Listing is an additional \$10.00. Subscription includes basic issues with cumulative bi-monthly supplements.

Another helpful publication a small business owner may want to obtain is a General Services Administration pamphlet titled "A Guide to Specifications and Standards of the Federal Government." This pamphlet describes the development and use of Government specifications and standards, tells how they benefit the Government and companies selling to it, discusses the importance of industry participation in the development of Government specifications and standards, and explains how to obtain copies or sets of specifications and standards.

The pamphlet is available free from Business Service Centers of GSA (see listing on page 73) and from the Washington and field offices of SBA and the Department of Commerce.

Qualification and Qualified Products Lists

Qualification is the testing of products for compliance with the requirements of a specification prior to and independent of purchasing action. The qualification procedure prevents delay in delivery of items under contract which might be caused by problems in design or composition, or by time-consuming tests required to prove that the specification requirements can be met. Products approved after qualification tests have been conducted are listed on qualified products lists (QPL). These lists serve as procurement tools in the awarding of contracts.

Justification: Qualification is required for products only through the medium of a specification and only when one of the following conditions exists:

1. The time required for testing in connection with production would unduly delay delivery of products being purchased.
2. The tests would require special equipment not commonly available.
3. The cost of repetitive testing would be excessive, or
4. The interest of the Government requires assurance, prior to award, that the product is satisfactory for its intended use.

When tests are conducted under contract, such as inspection tests, preproduction and production tests, which duplicate the qualification tests, then the justification for the qualified products list is eliminated. Where it has been determined that qualification testing is necessary, specifications for those products include the requirements for qualification (sec. 3 of the specification); the qualification tests (sec. 4), and the name of the activity responsible for qualification (sec. 6).

Significance: The fact that a product has been tested and included on a qualified products list is evidence only that a manufacturer can make a product that meets the specification requirements. Inclusion does not in any way relieve the manufacturer of his obligation to maintain such quality. The listing does not guarantee acceptance of the product in any future purchase, nor does it constitute a waiver of the requirements of the specification as to acceptance, inspection, testing or other provisions of any contract. The fact that a product is listed on a QPL does not relieve inspectors or purchasing officers of the responsibility for enforcing the requirements of the basic specification of the contract as to inspection and quality performance.

A supplier, to be eligible for award of a contract to furnish an approved product manufactured by another firm, is required to state in his bid the name of the actual manufacturer, the manufacturer's designation for the product, and the qualification test reference number. His bid will then receive the same consideration as bids for approved products from other sources.

Distribution of Rebranded Products

In general, a distributor or dealer who is completely responsible for the distribution of a product carrying his brand designation but manufactured by another company is considered eligible for listing on the QPL. In such cases, the distributor will ask the manufacturer to certify that he, as distributor, is authorized to rebrand and distribute the product. When this certification has been furnished, the activity responsible for qualification or its authorized agent, samples of the rebranded product may be requested from the distributor for tests. In the event the rebranded prod-

uct has been tested previously and approved under the brand designation of the manufacturer, qualification approval may be extended to the rebranded product by the activity responsible for qualification without retest. However, the manufacturer must certify that the rebranded product is in all respects the same as the approved product. The listing of a qualified product submitted by a distributor will include the name and brand designation of the distributor and the name and plant address of the actual manufacturer. This procedure is generally not applicable to equipment which requires repair parts support or where it conflicts with the provisions of an individual specification.

All inquiries and requests for qualification of products should be submitted to the activity named in section 6 of the applicable specification.

The activity responsible for qualification (preparing activity of the specification) notifies the manufacturer concerning the results of the testing and whether or not the product has met the qualification requirements. In the event the product is approved for inclusion on a qualified products list, the activity will prepare the list.

Caution: Qualified products lists are ordinarily fast-changing, and it is the responsibility of a purchasing office to determine the currency of the list before using. Although the Department of Defense Index of Specifications and Standards contains a list of available QPL's, new approvals may have been granted after issuance of the list. As stated in the Armed Services Procurement Regulation (ASPR), approvals issued prior to the time set for opening of bids are valid whether or not such products have actually been included in the QPL's by that date. Regulations governing the procurement of qualified products are contained in the ASPR.

Distribution of Specifications

The small business owner who received a government invitation for bid may be surprised to find that the bid does not include standardization documents applicable to the invitation. This is because standardization documents are expensive to reproduce and must be regulated closely.

A small business owner can solve this problem by: (1) familiarizing himself with the specifica-

tions for items he can furnish to the government; (2) compiling his own reference file of specifications for which he will have frequent use, and (3) when in doubt about his ability to furnish a needed item, consulting the appropriate specifications index or reference library of specifications before requesting a bid set and related specifications from the Government purchasing office.

Where to Write for Federal and Military Specifications

Copies of current Federal Specifications and Standards needed by business concerns for Government bidding and contracting purposes are available without charge from the Business Service Centers of the General Services Administration. These are located in the GSA regional offices in Boston, New York City, Washington, D.C., Atlanta, Chicago, Kansas City, Missouri, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle. Complete libraries, and copies wanted by individuals or organizations not directly involved in Government bidding and contracting, may be purchased through the GSA Business Service Center in Washington, D.C., at the prices shown in the current Index of Federal Specifications and Standards or Supplement thereto. Orders should be accompanied by check, postal money order, cash or Government Printing Office coupons in the proper amounts for the particular documents and quantities needed. Checks and money orders should be made payable to the "General Services Administration." Government Printing Office deposit account numbers will be honored. Bidders and contractors who are not certain exactly what specifications are needed, or who need other than current editions of specifications, should make inquiry directly to the particular Government agency contracting office which is requesting bids or which awarded the contract referencing the documents.

All requests for copies of specifications, standards, and qualified products lists should state the title and identifying number.

Requests for copies of the Federal and military specifications used by the Defense Department should be directed to the Commanding Officer, (Code 56), Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, Pa. 19120. This activity will supply without charge limited copies of

specifications. All routine requests for standardization documents that are in stock will be filled within 2 working days. Requests must identify each standardization document by symbol and title. All amendments and revisions are automatically issued with the basic document. Although any

form of request is acceptable, to obtain the fastest processing requests should be submitted on a Specifications and Standards Requisition (DD Form 1425). See back page. Copies of the DD Form 1425 for reorder purposes will be enclosed with each shipment from the Naval Supply Depot.

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

NAVAL PUBLICATIONS AND FORMS CENTER
 5801 TABOR AVENUE
 PHILADELPHIA, PA. 19120
 OFFICIAL BUSINESS

POSTAGE AND FEES PAID
 DEPARTMENT OF THE NAVY

REQUISITION NUMBER (For Local Convenience)

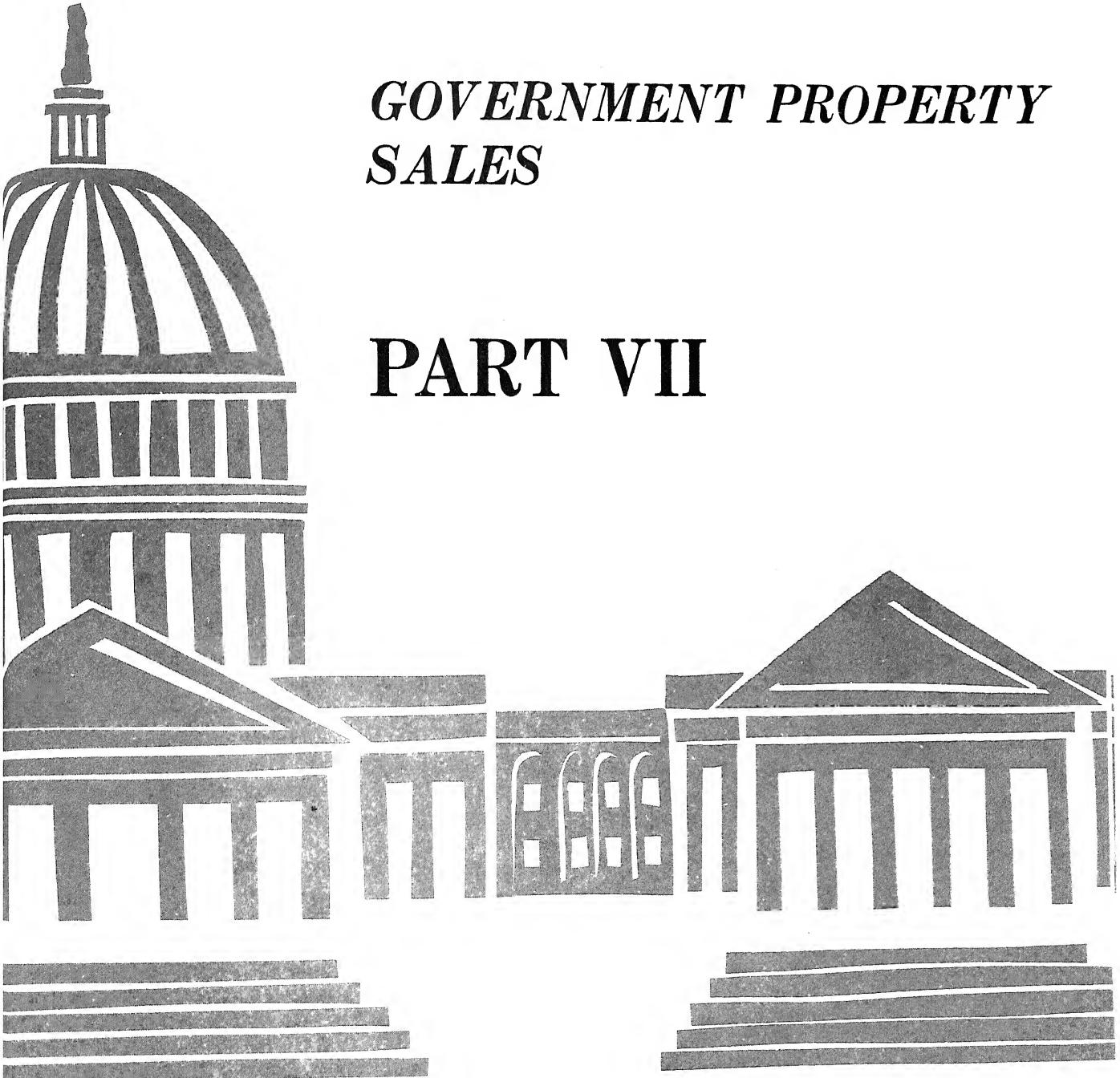
Please self-address the above label. Forward this form to the address shown herein. A window envelope may be used. Your request submitted on this form will speed service. Reorder forms will be enclosed with each shipment.

SPECIFICATIONS AND STANDARDS REQUISITION		IFB, RFQ OR RFP CLOSING DATE
Send _____ copies of the below listed documents which are listed in the DOD Index of Specifications and Standards.		
STANDARDIZATION DOCUMENT SYMBOL	TITLE <i>(From DOD Index of Specifications and Standards)</i>	
SIGNATURE		DATE

DD FORM MAR 65 1425

REPLACES 4ND-NSO 5200/1 WHICH MAY BE USED
 D-32476

TO: COMMANDING OFFICER
 NAVAL PUBLICATIONS AND FORMS CENTER
 5801 TABOR AVENUE
 PHILADELPHIA, PA. 19120



*GOVERNMENT PROPERTY
SALES*

PART VII

BUYING PROPERTY FROM U.S. GOVERNMENT

The Federal Government sells large quantities of many kinds of real and personal property including critical and strategic materials in the stockpile which becomes surplus to its needs. The Small Business Administration is responsible for helping small business concerns obtain a fair share of this property.

Toward this end, SBA maintains a register of small firms which have told the agency they want to purchase specific types of personal property within 13 of the most wanted categories of property. SBA staff members check their requests against surplus equipment as it becomes available for disposal. Registered firms are notified where and when this type of property in which they are interested is to be sold, and thus are assured an opportunity to inspect and bid for the property when it is offered for sale.

The SBA does not itself sell surplus personal property, except property held as collateral for SBA loans that have been foreclosed because of default. The two agencies of the Government principally concerned with property sales are (1) the Department of Defense, which, through its Defense Supply Agency, annually disposes of approximately \$700 million original cost personal property declared surplus by the military services; and (2) the General Services Administration, which disposes of personal property declared surplus by all civilian agencies, critical materials surplus to stockpile objectives, and has jurisdiction over the sale of all Federal property. GSA's aggregate sales of personal property amount to some \$75 million per year acquisition cost, whereas its sale of critical and shortage materials for 1966 totaled 360.4 million. SBA's major role in this vast

market operation is to bring together the small business buyer and the seller.

Military Surplus Personal Property

To market its surplus personal property, the Defense Supply Agency has established Defense Surplus Sales Offices (DSSO's). Each of these offices issues invitations to bid, notices of sale, and sales brochures describing the item or items being offered, the time and place of inspection and sale, the method of sale, and the terms and conditions upon which the proposed sale will be conducted.

SBA field offices study this information to locate property desired by firms on their registers (provided the firm names were not forwarded previously to the Defense Supply Agency bidders' center at Battle Creek, Michigan) and contact the interested firms to advise them of availability of the property.

SBA screening officers are located generally at each of the eight area offices in order to serve small firms when they initially desire Government surplus personal property. After a firm has registered its needs, SBA arranges to have catalogs sent directly to the firm by the military offices. Usually these DSSO property sales notices provide 21 days from time of receipt to day of sale.

If a business wants to buy surplus property on a continuing basis, it should communicate directly with the Defense Logistics Services Center, Battle Creek, Michigan, and tell it the kinds of surplus property desired, and the geographical areas convenient for inspection and attendance on date of sale. The Center maintains a bidders list used by all DSSO's.

Department of Defense Surplus Sales Offices

Redistribution and Marketing Activity
Elmendorf Air Force Base
APO 98472, Anchorage, Alaska
(Sells Army and Air Force Surplus
property in the State of Alaska
only.)

Commanding Officer
U.S. Naval Supply Center
Pearl Harbor, Hawaii
Box 300
EPO San Francisco, Calif. 96610

Defense Surplus Sales Office
U.S. Naval Supply Center
Post Office Box 4000
Bayshore Station
Oakland, Calif. 94623

PURCHASING, SPECIFICATIONS AND SALES DIRECTORY

Defense Surplus Sales Office
U.S. Naval Supply Center
937 North Harbor Drive
San Diego, Calif. 92132

Defense Surplus Sales Office
Davis-Monthan Air Force Base
Post Office Box 15085
Tucson, Ariz. 85708

Defense Surplus Sales Office
Defense Depot, Ogden Station
Post Office Box 58
Ogden, Utah 84401

Defense Surplus Sales Office
Federal Building
Post Office Drawer 1
Bush Terminal Station
Brooklyn, N.Y. 11232

Defense Surplus Sales Office
Fort Worth Army Depot
Post Office Box 6297
Fort Worth, Tex. 76115

Defense Surplus Sales Office
U.S. Naval Air Station
Post Office Box 31261—Yukon Branch
Jacksonville, Fla. 32230

Defense Surplus Sales Office
Atlanta Army Depot
Post Office Box 644
Forest Park, Ga. 30050

Defense Surplus Sales Office
U.S. Naval Supply Center
Building SDA—224
Hampton Roads Branch Post Office
Norfolk, Va. 23511

Defense Surplus Sales Office
Defense Construction Supply Center
Post Office Box 13110
Columbus, Ohio 43213

Defense Surplus Sales Office
Philadelphia Naval Shipyard
Post Office Box 8019
30th Street P.O.
Philadelphia, Pa. 19101

Defense Surplus Sales Office
U.S. Naval Supply Depot
Post Office Box 660
Newport, R.I. 02840

Civilian Surplus Personal Property

The General Services Administration maintains 10 regional offices which sell most personal property declared surplus by the civilian agencies. SBA functions in regard to these sales in much the same manner as in regard to sales of military surplus. To obtain SBA's help in locating special categories of personal property, such commodities or type of property desired should be described to

SBA on forms provided by the agency. The SBA will save the businessman who wants to buy only one or a few items much time in screening sales brochures issued by the Government. Those desiring a considerable amount of personal property may obtain the opportunity to bid by making known their interests to the particular GSA Regional Office in the area where they wish to inspect and buy the property, and by asking to be included on the appropriate bidders lists.

General Services Administration Regional Offices and the Areas Covered by Each Office*Region 1*

John Fitzgerald
Kennedy Federal
Bldg., Boston,
Mass. 02203

Area Served:

Maine, New Hampshire, Vermont,
Rhode Island,
Massachusetts,
Connecticut

Region 5

219 South Dearborn
Street,
Chicago, Ill. 60604

Area Served:

Illinois, Indiana,
Kentucky, Michigan,
Ohio, Wisconsin

Region 2

30 Church Street,
New York, N.Y.
10007

New York, Delaware,
New Jersey,
Pennsylvania,
Puerto Rico,
Virgin Islands

Region 6

GSA Building, 1500
East Bannister
Road,
Kansas City, Mo.
64131

Iowa, Kansas, Minnesota,
Missouri, Nebraska,
North Dakota,
South Dakota

Region 3

Seventh and D
Streets, S.W.,
Washington, D.C.
20407

District of Columbia,
Maryland,
Virginia,
West Virginia

Region 7

819 Taylor Street,
Fort Worth, Texas
76102

Arkansas, Oklahoma,
Louisiana, Texas

Region 4

1776 Peach Street,
N.W., Atlanta, Ga.
30309

Alabama, Florida,
Georgia,
North Carolina,
Mississippi,
South Carolina,
Tennessee

Region 8

Denver Federal
Center
Building 41,
Denver, Colo. 80225

Arizona, Colorado,
New Mexico, Utah,
Wyoming

GSA Regional Offices—Continued*Region 9*

49-4th Street, San Francisco, Calif. 94103 300 North Los Angeles Street, Los Angeles, Calif. 90012	<i>Area Served:</i> Nevada, California, Hawaii Los Angeles, Southern California
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Region 10

Federal Office Building, 909 First Avenue, Seattle, Wash. 98104 Room 309, Post Office and Court- house Building Fourth and F Streets Anchorage, Alaska 99501	Idaho, Montana, Oregon, Washington Alaska
Post Office, Court- house and Customs Building 335 South King Street, Honolulu, Hawaii 96813	

Personal Property Sales Methods

Surplus personal property normally is sold on a competitive bid basis to the highest acceptable bidder. Sales usually are by sealed bid, spot bid, or auction method.

Sealed Bid Sale. This method is used extensively. The selling agency or installation requesting bids on the property to be sold sends prospective bidders an invitation for bid which describes the property to be sold, tells where it may be inspected, specifies the place, conditions and date of sale, and names the person to see or write for further information. The sealed bids are opened publicly at a stated time and place, and the award subsequently made on the basis of the highest acceptable bid.

Auction Sale. This method is used when a substantial quantity and wide variety of materials having extensive commercial application are offered for sale. Catalogs which describe the property, give inspection and sales dates, and specify the conditions of sale, are distributed well in advance of the sale to those on the bidders list.

Spot Bid Sale. This sales method generally is used when small quantities of property, consisting mainly of consumer-type items, are offered. Prospective buyers may inspect the property and submit bids on forms provided by the sales agency or installation as each item is opened for sale.

Principal Conditions of Sale

These are the principal conditions governing the sale of surplus personal property:

Inspection. Property generally is sold on an "as is, where is" basis. The condition of material is described as accurately as possible in the bid invitation or catalog, but no guaranty or warranty is expressed or implied. Surplus property may not be sold by sample; therefore, a bidder should always inspect the property carefully before bidding in order to satisfy himself as to its condition and worth.

Deposits and Payment of Balances. If a deposit is required with a bid, the invitation will specify the amount. Usually it will be 20 percent or more of the total bid price. The invitation also will state the time limit for payment of the balance of the purchase price; the successful bidder usually must pay the full amount before he may remove the property from Government premises. If a sales catalog is used, it also will specify the amount of the required deposit and the time allowed for full settlement and removal of the property.

Awards. The award usually is made to the highest acceptable bidder. In most cases, the sales installation will have established an "upset price"—a confidential price that is the minimum it will accept. If the highest bid is less than the upset price the agency may decide not to make an award. As a rule, where the highest bid does not meet or exceed the upset price, the items are reoffered by the agency at another sale or, in certain specified situations, on a negotiated basis, until a bidder meets the upset price or the price is lowered by the agency.

Withdrawal Policy. The Government reserves the right to withdraw surplus property from sale at any time prior to award.

Removal of Property. The successful bidder must remove the property from Government premises within the time limit prescribed in the bid invitation or catalog.

Sale of Excess Strategic Materials

Property Management and Disposal Service of the General Services Administration is responsible for obtaining and storing strategic materials to meet objectives prescribed by the Office of Emergency Planning for manufacturing needs in time of national emergency. Whenever the stockpile requirement for a material is lowered, which may be due to military innovations, new manufacturing methods, new metal discoveries, etc., any oversupply of the material may be sold.

At that time, the Office of Emergency Planning may authorize GSA to develop a plan for orderly disposal of excess materials. Sales plans are based upon market impact studies in order to avoid disrupting normal free world market activity. Disposal plans for materials purchased under the Defense Production Act require the approval of OEP. All other disposal plans require congressional approval. In rare instances, the President may authorize release of material in the interest of the common defense.

The disposal plan will establish the rate of sales and the method, such as sealed-bid offerings or off the shelf sales. The plan may limit the use of the material to domestic consumption; or it may provide for sales to a foreign country obtaining U.S. assistance through the Agency for International Development.

In those instances where small firms may find it difficult to purchase, at reasonable prices, a supply of the materials, SBA and the sales agency may jointly "set aside" a reasonable amount for exclusive bidding by small business.

For purposes of purchasing set-aside materials, a business must meet the SBA size standard set forth in section 121.3-9(a), part 121, chapter I, title 13 of the SBA Size Regulation.

Surplus Real Property

Federal agencies that have real property they no longer need report this to the General Services Administration for (1) possible use of the property by other executive agencies, or (2) disposal of the property as surplus. Regulations governing the disposal of real property provide that local governments and institutions may acquire it for health, education, recreational, or certain other uses at a discount or price preference.

Surplus property not sold to public agencies or institutions generally is advertised for sale by GSA on a competitive-bid basis. Surplus structures and other improvements located on land to be retained by the Government are normally offered for sale by the agency responsible for care and custody. Land and improvements which are held by the Departments of Defense, Agriculture and Interior and which have a fair market value of less than \$1,000 are offered for sale by these departments.

Scheduled sales are widely publicized through newspapers, magazines, trade journals, direct mail, and the "Commerce Business Daily." (see description of the Daily on p. 5.) Each GSA regional office maintains mailing lists of persons interested in a particular property or type of property which might become available in the area. It is suggested that interested persons make their needs known to the appropriate SBA regional office or the disposal officer of the appropriate GSA region.

Government Timber Sales

The U.S. Government regularly sells timber from the Federal forests managed by the U.S. Forest Service, Department of Agriculture, and the Bureau of Land Management, Department of Interior. On occasion, timber also is sold from federally-owned forests which are under the supervision of the Department of Defense, the Atomic Energy Commission, and the Tennessee Valley Authority.

The Small Business Administration and these agencies work together in ensuring full opportunity for small logging and milling concerns to bid on Federal timber sales. SBA and the sales agencies jointly set aside timber sales for bidding by small concerns when it appears that, under open sales, small business would not obtain a fair share at reasonable prices.

The sales agency notifies small firms of planned sales of timber through conferences and newspaper advertisements, and specifies whether the planned sale has been set aside for exclusive bidding by small concerns.

Forest Service timber sales with an appraised value in excess of \$2,000 are made through the supervisors of the various national forests. These supervisors notify small firms on their mailing lists of the larger sales. Small firms should ask the regional office of the Forest Service nearest their

place of operation to place their names on the mailing list. The addresses of these officers are given below.

Smaller sales are made by the rangers in charge of the "forest districts" within the national forests. Since these sales are normally scheduled for small firms, they are not reviewed for set-aside possibilities by SBA. Forest Service regional offices will also furnish small firms with the addresses of the rangers. The regional forests' addresses are:

Region

- 1 Northern Region, Federal Building, Missoula, Mont. 59801
- 2 Rocky Mountain Region, Building 85, Federal Center, Denver, Colo. 80225
- 3 Southwestern Region, New Federal Bldg., Albuquerque, N. Mex. 87101
- 4 Intermountain Region, U.S. Forest Service, 324—25th St., Ogden, Utah 84401
- 5 California Region, 630 Sansome Street, San Francisco, Calif. 94111
- 6 Pacific Northwest Region, U.S. Forest Service, Post Office Box 3623, Portland, Oreg. 97208
- 7 Eastern Region, U.S. Forest Service, 6816 Market Street, Upper Darby, Pa. 19082
- 8 Southern Region, U.S. Forest Service, 50 Seventh Street, Northeast, Atlanta Ga. 30323
- 9 North Central Region, U.S. Forest Service, Greyhound Bldg., 633 W. Wisc. Ave., Milwaukee, Wis. 53203
- 10 Alaska, U.S. Forest Service, Post Office Box 1628, Juneau, Alaska 99801

Bureau of Land Management Sales

Timber sales made from forests managed by the Bureau of Land Management are handled by State director offices. A small concern interested in bidding on sales in its area may obtain notification of sales through request to the nearest State director's office or district manager's office. The directors' offices are located as follows:

State Offices

- 1 Federal Building, Room 4017, 650 Capital Ave., Sacramento, Calif. 95814
- 2 729 Northeast Oregon St., P.O. Box 2965, Portland, Oreg. 97208
- 3 Federal Building, Room 3022, Phoenix, Ariz. 85025
- 4 323 Federal Building, Post Office Box 2237, Boise, Idaho 83701
- 5 Federal Building, Room 3008, 300 Booth St., Reno, Nevada 89502
- 6 8217 Federal Bldg., Post Office Box 11505, Salt Lake City, Utah 84111
- 7 14023 Federal Building, 1961 Stout Street, Denver, Colo. 80202

State Office

- 8 Federal Building and U.S. Courthouse, 316 N. 26th Street, Billings, Mont. 59101
- 9 U.S. Post Office and Federal Building, South Federal Place, Box 1449, Santa Fe, N. Mex. 87501
- 10 U.S. Post Office and Courthouse Building, 2120 Capitol Avenue, Post Office Box 1828, Cheyenne, Wyo. 82001
- 11 555 Cordova Street, Anchorage, Alaska 99501

The addresses of district offices may be obtained from the directors' offices in the States where interest is expressed.

Other Federal Sales

Concerns located near other Federally-owned forests may obtain sales information from:

Division of Reservoir Properties, Tennessee Valley Authority, Knoxville, Tenn.

Savannah River Operations Office, U.S. Atomic Energy Commission, Post Office Box A, Aiken, S.C. 29801

Defense Logistics Services Center, Defense Surplus Bidders Control Office, Battle Creek, Mich. 49016

Size Standards. To qualify for the opportunity to bid on timber sales that have been set aside for small business, a firm must meet eligibility requirements prescribed under an SBA size standard. Under this standard, firms bidding on Government-owned timber or related products are classified as small if they are engaged primarily in the logging or forest products industry, are independently owned and operated, are not dominant in their field of operation and, together with affiliates, do not employ more than 500 persons. In the event a small firm proposes to resell the timber in the form of logs, bolts, etc., it may not resell more than 30 percent to businesses which do not meet the SBA size standard except in prescribed areas where such percentage is not feasible because of growth problems. As of the date of the publication in this Directory, Alaska is the only excepted area. No more than 50% of Alaskan timber purchased on a small business set-aside sale can be resold to a business which does not meet this standard.

Any bid on timber that has been set aside for small firms must bear a self-certification that the bidder is a small business by SBA standards, and

must meet the contractual requirements established by the Forest Service, the Bureau of Land Management, or the Department of Defense. In the absence of a written protest from any other bidder, a self-certified concern shall be deemed to be a small business for the purpose of the specific Government sale involved.

SBA Access Road Construction Loans. Through agreements with the Forest Service and Bureau of Land Management, SBA makes loans to small purchasers of National Forest timber for construction of primary access roads, when the building of such roads is part of the timber sales contract. These SBA loans free the borrowers' working capital funds to meet ordinary operating expenses and to purchase stumpage. They also make it possible to amortize road construction costs while timber is being moved over the roads.

Applications for SBA road construction loans will be accepted only from small businesses which are successful bidders for Federal forest timber sales and which meet SBA size, eligibility, and credit requirements. Additional information about loans is available from the Forest Supervisor's Office, Bureau of Land Management State Director's Office, or the nearest SBA field office.

Other Surplus Property

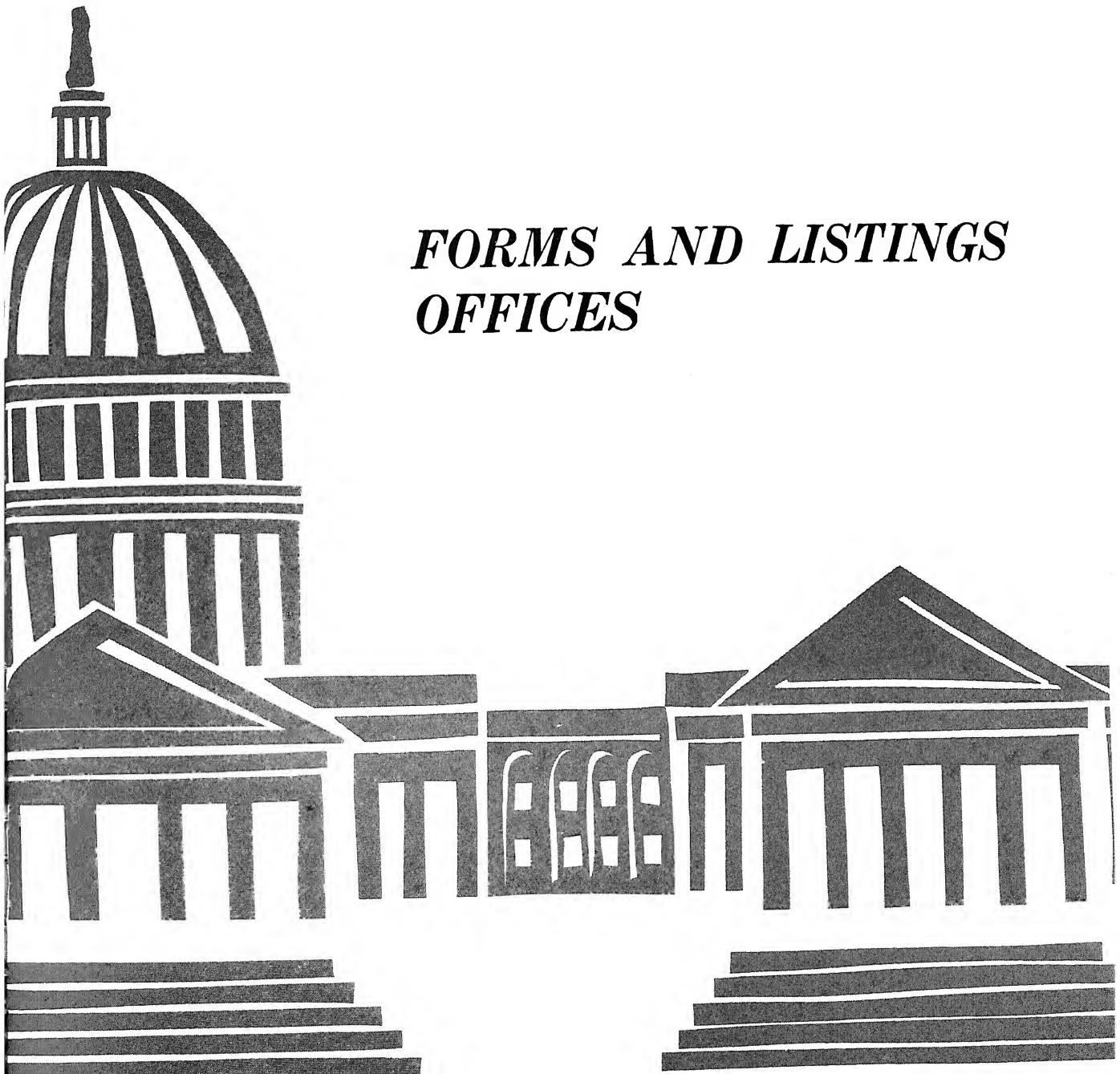
There are several other sources of surplus property that warrant mention.

Maritime Administration. The Maritime Administration, U.S. Department of Commerce, frequently sells "Liberty" and other ships for scrapping purposes, from the various Reserve Fleets on the Atlantic, Pacific, and Gulf Sea-

boards. By agreement with the Maritime Administration, proposed sales are reviewed by SBA where small firms are unable to purchase at reasonable prices a share of the ships being sold. When there is sufficient small business interest, and established criteria dictate the need for the preferential sales, the two agencies jointly set aside one or more ships for exclusive sale to qualified small businesses. Small firms that are interested in bidding on set-aside sales of ships should inform SBA's office of Procurement Assistance, Washington, D.C., or the Maritime Administration, also in Washington.

"Royalty Oil." When the open market supply of crude oil is insufficient for small refineries to maintain operating standards, the Geological Survey, Department of the Interior, informs the Secretary of the Interior. The Secretary has the right by law to allocate "royalty oil" to small refineries brought to his attention in this way or through notification by SBA. By agreement with the Navy Department, it too will allocate oil, by means of set-asides or otherwise, for sale to small refineries that meet the necessary conditions.

"Royalty oil" is defined as follows: Royalties due the Government under leases of Government lands for the extraction of oil or gas may be accepted by the Secretary of the Interior in the form of oil or money. If he elects to accept oil in lieu of money, it is identified as royalty oil. For purposes of purchasing royalty oil under this program, a small refinery is one whose employment does not exceed 1,000 persons and whose crude oil capacity from owned and leased facilities does not exceed 30,000 barrels per day.



***FORMS AND LISTINGS
OFFICES***

U.S. Department of Commerce Field Offices*

ALBUQUERQUE, N. Mex. 87101	CHEYENNE, WYO. 82001	HARTFORD, CONN. 06103
U.S. Courthouse	6022 Federal Bldg.	18 Asylum St.
William E. Dwyer, Director	2120 Capital Ave.	James E. Kelley, Director
Area Code 505 Tel. 247-0311	Joseph D. Davis, Director	Area Code 203 Tel. 244-3530
FTS 505-247-2386	Area Code 307 Tel. 634-5920	FTS 203-244-3530
ANCHORAGE, ALASKA 99501	FTS 307-778-2377	
306 Loussac-Sogn Bldg.		HONOLULU, HAWAII 96813
Maurice H. Oaksmith, Director		352 Alexander Young Bldg.
Area Code 907 Tel. 272-6331		1015 Bishop St.
ATLANTA, GA. 30303		H. Tucker Gratz, Director
4th Floor, Home Savings Bldg.		Tel. 588-977
75 Forsyth St. NW.		
Daniel M. Paul, Director		HOUSTON, TEX. 77002
Area Code 404 Tel. 526-6000		5102 Federal Bldg.
FTS 404-526-6000		515 Rusk Ave.
BALTIMORE, MD. 21202		Edward T. Fecteau, Jr., Director
305 U.S. Customhouse		Area Code 713 Tel. 228-0611
Gay and Lombard Streets		FTS 713-228-4281
Carroll F. Hopkins, Director		
Area Code 301 Tel. 962-3560		JACKSONVILLE, FLA. 32202
FTS 301-962-3560		Post Office Box 35087
BIRMINGHAM, ALA. 35205		400 West Bay St.
Suite 200-201		Wm. Bruce Curry, Director
908 South 20th St.		Area Code 904 Tel. 791-2796
Gayle C. Shelton, Jr., Director		FTS 904-791-2796
Area Code 205 Tel. 325-3327		
FTS 205-325-3327		KANSAS CITY, MO. 64106
BOSTON, MASS. 02203		Room 2011, 911 Walnut St.
Room 510, John F. Kennedy Federal		Nathan L. Stein, Director
Bldg.		Area Code 816 Tel. 374-3141
Paul G. Carney, Director		FTS 816-374-3142
Area Code 617 Tel. 223-2312		
FTS 617-223-2312		LOS ANGELES, CALIF. 90015
BUFFALO, N.Y. 14203		Room 450, Western Pacific Bldg.
504 Federal Bldg.		1031 South Broadway
117 Ellicott Street		Stanley K. Crook, Director
Robert F. Magee, Director		Area Code 213 Tel. 688-2833
Area Code 716 Tel. 842-3208		FTS 213-688-2830
FTS 716-842-3208		
CHARLESTON, S.C. 29403		MEMPHIS, TENN. 38103
Federal Bldg., Suite 631		710 Home Federal Bldg.
334 Meeting Street		147 Jefferson Ave.
Paul Quattlebaum, Jr., Director		John M. Fowler, Director
Area Code 803 Tel. 577-4171		Area Code 901 Tel. 534-3214
FTS 803-577-4361		FTS 901-534-3214
CHARLESTON, W. VA. 25301		
3002 New Federal Office Bldg.		MIAMI, FLA. 33130
500 Quarrier Street		Room 821, City National Bank Bldg.
J. Raymond DePaulo, Director		25 West Flagler St.
Area Code 304 Tel. 343-6196		Roger J. LaRoche, Director
FTS 304-343-1375		Area Code 305 Tel. 350-5267
		FTS 305-350-5267
*Supersedes List dated March 1, 1968.		
		MILWAUKEE, WIS. 53203
		Straus Bldg.
		238 West Wisconsin Ave.
		David F. Howe, Director
		Area Code 414 Tel. 272-8600
		FTS 414-272-3473

U.S. Department of Commerce Field Offices—Continued

MINNEAPOLIS, MINN. 55401 306 Federal Bldg. 110 South Fourth St. Ernest G. Booth, Director Area Code 612 Tel. 334-2133 FTS 612-334-2133	PITTSBURGH, PA. 15222 2201 Federal Bldg. 1000 Liberty Ave. Lewis E. Conman, Director Area Code 412 Tel. 644-2850 FTS 412-644-2850	SALT LAKE CITY, UTAH 84111 3235 Federal Bldg. 125 South State St. Stephen P. Smoot, Director Area Code 801 Tel. 524-5116 FTS 801-524-5116
NEW ORLEANS, LA. 70130 909 Federal Office Bldg., South 610 South St. Edwin A. Leland, Jr., Director Area Code 504 Tel. 527-6546 FTS 504-527-6546	PORTLAND, OREG. 97204 217 Old U.S. Courthouse 520 S.W. Morrison St. James W. Goodsell, Director Area Code 503 Tel. 226-3361 FTS 503-226-3421	SAN FRANCISCO, CALIF. 94102 Federal Building, Box 36013 450 Golden Gate Ave. Philip M. Creighton, Director Area Code 415 Tel. 556-5864 FTS 415-556-5864
NEW YORK, N.Y. 10001 61st Floor Empire State Bldg. 350 Fifth Ave. Arthur C. Rutzen, Director Area Code 212 Tel. 563-3377 FTS 212-563-3377	RENO, NEV. 89502 2028 Federal Bldg. 300 Booth St. Jack M. Howell, Director Area Code 702 Tel. 784-5203 FTS 702-784-5203	SAN JUAN, PUERTO RICO 00902 Room 100, Post Office Bldg. William Freytes-Martinez Trade Specialist in Charge Phone: 723-4640
PHILADELPHIA, PENN. 19107 Jefferson Bldg. 1015 Chestnut St. David Jamieson, Director Area Code 215 Tel. 597-2850 FTS 215-597-2850	RICHMOND, VA. 23240 2105 Federal Bldg. 400 North 8th St. William S. Parker, Director Area Code 703 Tel. 649-3611 FTS 703-649-2413	SAVANNAH, GA. 31402 235 U.S. Courthouse & Post Office Bldg. 125-29 Bull Street James W. McIntire, Director Area Code 912 Tel. 232-4321 FTS 912-232-4204
PHOENIX, ARIZ. 85025 5413 New Federal Bldg. 230 North First Ave. Donald W. Fry, Director Area Code 602 Tel. 261-3285 FTS 602-261-3285	ST. LOUIS, MO. 63103 2511 Federal Bldg. 1520 Market St. Alfred L. Rascher, Jr., Director Area Code 314 Tel. 622-4243 FTS 314-622-4241	SEATTLE, WASH. 98104 809 Federal Office Bldg. 909 First Ave. William H. Flood, Director Area Code 206 Tel. 583-5615 FTS 206-583-5615

STANDARD FORM 129
JANUARY 1966 EDITION
FPR (41 CFR) 1-16.802

BIDDER'S MAILING LIST APPLICATION

INITIAL APPLICATION
REVISION

Fill in all spaces. Insert "NA" in blocks not applicable. Type or print all entries. See reverse for instructions.

TO (Enter name and address of Federal agency to which form is submitted. Include ZIP code)		DATE		
1. APPLICANT'S NAME AND ADDRESS (Include county and ZIP code)		2. ADDRESS (Include county and ZIP code) TO WHICH SOLICITATIONS ARE TO BE MAILED (If different from item 1)		
3. TYPE OF ORGANIZATION (Check one)		4. HOW LONG IN PRESENT BUSINESS		
INDIVIDUAL	PARTNERSHIP		NON-PROFIT ORGANIZATION	
CORPORATION, INCORPORATED UNDER THE LAWS OF THE STATE OF				
5. NAMES OF OFFICERS, OWNERS, OR PARTNERS				
PRESIDENT	VICE PRESIDENT	SECRETARY		
TREASURER	OWNERS OR PARTNERS			
6. AFFILIATES OF APPLICANT (Names, locations, and nature of affiliation. See definition on reverse)				
7. PERSONS AUTHORIZED TO SIGN BIDS, OFFERS, AND CONTRACTS IN YOUR NAME (Indicate if agent)				
NAME	OFFICIAL CAPACITY	TEL. NO. (Incl. area code)		
8. IDENTIFY EQUIPMENT, SUPPLIES, MATERIALS, AND/OR SERVICES ON WHICH YOU DESIRE TO BID (See attached Federal agency's supplemental listing and instructions, if any)				
9. TYPE OF BUSINESS (See definitions on reverse)				
MANUFACTURER OR PRODUCER	REGULAR DEALER (Type 1)	REGULAR DEALER (Type 2)		
SERVICE ESTABLISHMENT	CONSTRUCTION CONCERN	RESEARCH AND DEVELOPMENT FIRM		
<input type="checkbox"/> SURPLUS DEALER (Check this box if you are also a dealer in surplus goods)				
10. SIZE OF BUSINESS (See definitions on reverse)				
SMALL BUSINESS CONCERN *	OTHER THAN SMALL BUSINESS CONCERN			
* If you are a small business concern, fill in (a) and (b):	(a) AVERAGE NUMBER OF EMPLOYEES (Including affiliates) FOR FOUR PRECEDING CALENDAR QUARTERS	(b) AVERAGE ANNUAL SALES OR RECEIPTS FOR PRECEDING THREE FISCAL YEARS		
11. FLOOR SPACE (Square feet)		NET WORTH		
MANUFACTURING	WAREHOUSE	DATE AMOUNT		
13. SECURITY CLEARANCE (If applicable, check highest clearance authorized)				
FOR	TOP SECRET	SECRET	CONFIDENTIAL	NAMES OF AGENCIES WHICH GRANTED SECURITY CLEARANCES (Include dates)
KEY PERSONNEL				
PLANT ONLY				
THIS SPACE FOR USE BY THE GOVERNMENT				CERTIFICATION
				I CERTIFY THAT INFORMATION SUPPLIED HEREIN (Including all pages attached) IS CORRECT AND THAT NEITHER THE APPLICANT NOR ANY PERSON (Or concern) I, IS ANY CONNECTION WITH THE APPLICANT AS A PRINCIPAL OR OFFICER, SO FAR AS IS KNOWN, IS NOW DEBARRED OR OTHERWISE DECLARED INELIGIBLE BY ANY AGENCY OF THE FEDERAL GOVERNMENT FROM BIDDING FOR FURNISHING MATERIALS, SUPPLIES, OR SERVICES TO THE GOVERNMENT OR ANY AGENCY THEREOF. SIGNATURE
				NAME AND TITLE OF PERSON AUTHORIZED TO SIGN (Type or print)

INFORMATION AND INSTRUCTIONS

Persons or concerns wishing to be added to a particular agency's bidder's mailing list for supplies or services shall file this properly completed and certified Bidder's Mailing List Application, together with such other lists as may be attached to the application form, with each procurement office of the Federal agency with which they desire to do business. If a Federal agency has attached a supplemental Commodity List with instructions, complete the application as instructed. Otherwise, identify in Item 8 the equipment, supplies, and/or services on which you desire to bid. *The application shall be submitted and signed by the principal as distinguished from an agent, however constituted.*

After placement on the bidder's mailing list of an agency, a supplier's failure to respond (*submission of bid, or notice in writing, that you are unable to bid on that particular transaction but wish to remain on the active bidder's mailing list for that particular item*) to Invitations for Bids will be understood by the agency to indicate lack of interest and concurrence in the removal of the supplier's name from the purchasing activity's bidder's mailing list for the items concerned.

TYPE OF BUSINESS DEFINITIONS

(See Item No. 9)

- A. MANUFACTURER OR PRODUCER means a person (or concern) owning, operating, or maintaining a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment of the general character of those listed in Item No. 8, or in the Federal Agency's supplemental Commodity List, if attached.
- B. REGULAR DEALER (Type 1) means a person (or concern) who owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment of the general character listed in Item No. 8 or in the Federal Agency's supplemental Commodity List, if attached, are bought, kept in stock, and sold to the public in the usual course of business.
- C. REGULAR DEALER (Type 2) in the case of supplies of particular kinds (at present, petroleum, lumber and timber products, machine tools, raw cotton, green coffee, hay, grain, feed, or straw, agricultural liming materials, tea, raw or unmanufactured cotton linters). "REGULAR DEALER" means a person (or concern) satisfying the requirements of the regulations (Code of Federal Regulations, Title 41, 50-201.101(b)) as amended from time to time, prescribed by the Secretary of Labor under the Walsh-Healey Public Contracts Act (Title 41 U.S. Code 35-45). For coal dealers, see Code of Federal Regulations, Title 41, 50-201.604(a).
- D. SERVICE ESTABLISHMENT means a concern (or person) which owns, operates, or maintains any type of business which is principally engaged in the furnishing of nonpersonal services, such as (*but not limited to*) repairing, cleaning, re-decorating, or rental of personal property, including the furnishing of necessary repair parts or other supplies as part of the services performed.
- E. CONSTRUCTION CONCERN means a concern (or person) engaged in construction, alteration or repair (including dredging, excavating, and painting) of buildings, structures or other real property.

DEFINITIONS RELATING TO SIZE OF BUSINESS

- A. SMALL BUSINESS CONCERN. A small business concern for the purpose of Government procurement is a concern, including its affiliates, which is independently owned and operated, is not dominant in the field of operation in which it is bidding on Government contracts and can further qualify under the criteria concerning number of employees, average annual receipts, or other criteria, as prescribed by the Small Business Administration. (See Code of Federal Regulations, Title 13, Part 121, as amended, which contains detailed industry definitions and related procedures.)
- B. AFFILIATES. Business concerns are affiliates of each other when either directly or indirectly (i) one concern controls or has the power to control the other, or (ii) a third party controls or has the power to control both. In determining whether concerns are independently owned and operated and whether or not affiliation exists, consideration is given to all appropriate factors including common ownership, common management, and contractual relationship. (See Items Nos. 6 and 10.)
- C. NUMBER OF EMPLOYEES. In connection with the determination of small business status, "number of employees" means the average employment of any concern, including the employees of its domestic and foreign affiliates, based on the number of persons employed on a full-time, part-time, temporary, or any other basis during the pay period ending nearest the last day of the third month in each calendar quarter for the preceding four quarters. If a concern has not been in existence for four full calendar quarters, "number of employees" means the average employment of such concern and its affiliates during the period such concern has been in existence based on the number of persons employed during the pay period ending nearest the last day of each month. (See Item No. 10.)

COMMERCE BUSINESS DAILY

The Commerce Business Daily, published by the Department of Commerce, contains information concerning proposed procurements, sales, and contract awards. For further information concerning this publication, contact your local Commerce Field Office.

BIDDER'S MAILING LIST APPLICATION SUPPLEMENT

 Form Approved
 Budget Bureau No. 22-R091.6

IF ADDITIONAL SPACE IS REQUIRED, ATTACH SEPARATE SHEET AND REFER TO ITEM NUMBER

NUMBER OF EMPLOYEES	OPERATIONS AT	ENGINEERING	PRODUCTION	OTHERS	TOTAL
	MAXIMUM LEVEL				
	MINIMUM (During last 2 yrs.)				
	PRESENT LEVEL				
CONTRACTS HELD WITH ARMED SERVICES DURING PAST 3 YEARS (List separately)					
CONTRACT NUMBER	DESCRIPTION OF ITEMS			DOLLAR VALUE	
3. TYPES OF EQUIPMENT, COMPONENTS, MATERIAL OR SERVICES NOW BEING MANUFACTURED, PERFORMED, OR DEVELOPED (Commercial and Military)					
4. FLOOR SPACE (Sq. ft.)	ENGINEERING	LABORATORY	TOTAL FLOOR SPACE (Including warehouse and manufacturing space)		
5. BRIEF DESCRIPTION OF BUILDINGS (Type of construction and use)					
6. MACHINERY AND EQUIPMENT ¹					
7. TESTING AND/OR LABORATORY FACILITIES ¹					
8. ADDRESSES (Including counties) OF FACTORIES, FOUNDRIES, MINES, OR YARDS, IF ANY (Specify)					
9. SECURITY CLEARANCE (If applicable, check highest clearance authorized by clearing agency)					
FOR KEY PERSONNEL			FOR PLANT ONLY		
<input type="checkbox"/> TOP SECRET	<input type="checkbox"/> CONFIDENTIAL	<input type="checkbox"/> SECRET	<input type="checkbox"/>	<input type="checkbox"/> CONFIDENTIAL	
<input type="checkbox"/> SECRET					
10. DEPARTMENTS WHICH HAVE GRANTED SECURITY CLEARANCE AND DATES GRANTED					
10. INCLOSURES (Check) <input type="checkbox"/> FINANCIAL STATEMENTS, INCLUDING OPERATING STATEMENTS <input type="checkbox"/> DESCRIPTIVE LITERATURE <input type="checkbox"/> ADDITIONAL INFORMATION ATTACHED <input type="checkbox"/> BROCHURE <input type="checkbox"/> CATALOG <input type="checkbox"/> PHOTOGRAPHS					
11. I CERTIFY THAT THE INFORMATION SUPPLIED HEREIN (Including any attachments) IS CORRECT					
DATE	NAME AND ADDRESS OF APPLICANT		SIGNATURE		
¹ Give brief, representative outline of type and condition of machinery, equipment (6), and facilities (7) available; if not owned by firm, give status in detail.					

 DD FORM 558-1
 1 AUG 60

EDITION OF 1 JAN 54 IS OBSOLETE. (THIS FORM MAY BE REPRODUCED WITHOUT PERMISSION)